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FUNDAMENTAL CHARACTERIZATION OF SPANWISE LOADING AND TRAILED WAKE VORTICES

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Aviation Development Directorate
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13. ABSTRACT (Maximum 200 Words)

This report focuses on one of the most prominent flow features of the hovering rotor wake, the close interaction of the tip vortex with a following blade. Such vortex interactions are fundamental determinants of rotor performance, loads, and noise. Yet, they are not completely understood, largely due to the lack of sufficiently comprehensive experimental data. The present study aims to perform such comprehensive measurements, not on hovering helicopter rotors (which hugely magnifies test complexity) but using fixed-wing models in controlled wind tunnel tests. The experiments were designed to measure, in considerable detail, the aerodynamic loading resulting from a vortex interacting with a semi-span wing, as well as the wake resulting from that interaction. The goal of the present study is to answer fundamental questions such as (a) the influence of a vortex passing below a wing on the lift, drag, tip vortex and the wake of that wing, and (b) the strength of the forming tip vortex and its relation to the wing loading and/or the tip loading.

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ABSTRACT (CONCLUDED)

The measured data show large lift distribution changes for a range of wing-vortex interactions including the effects of close encounter with the vortex core. Significant asymmetry in the vortex induced lift loading was observed, with the increase in wing sectional lift outboard of the interacting vortex (closer to the tip) being much smaller than the corresponding decrease inboard of the vortex. High resolution flow field measurements were performed to better understand the relationship between the tip vortex characteristics, such the circulation distribution inside the vortex core, and the loading distribution on the generating wing. The fixed-wing loading distribution differs from a typical loading on a hovering rotor blade in that the maximum bound circulation occurs at the blade root, and not close to the tip; this is similar to a very highly twisted rotor blade, like a tilt-rotor, in hover. The wing-vortex interaction alters the wing loading such that the loading peak moves closer to the tip. The trailed circulation in the wake induced by the vortex interaction may entrain into the interacting vortex. The measurements show that this has a profound impact on the evolution of both the wing tip vortex and the interacting vortex. These findings can be of significance to engineering models, such as the free vortex wake models typical in rotorcraft comprehensive analyses.

ACKNOWLEDGMENTS

Wind tunnel testing often entails unforeseen difficulties that appear at the worst possible time. However, this particular test with its heavy instrumentation and unusual model motion requirements was exceptional in this regard, and would not have been possible without its outstanding crew --- Steve Nance, Brian Chan, Bruce Gesek, Gary Buob, Hank Schwoob, Bill Peneff, Perry Kavros and their fearless leader, Nili Gold. Their constant support in tunnel operation, model component fabrication, setup and maintenance has been invaluable. Special thanks to Sam Gunatileka for data acquisition programming that well exceeded our expectations.

Very special recognition is due to Jim Scott of the NASA Ames manufacturing branch, who conceived the basic wing and instrumentation design and executed its fabrication. He displayed extraordinary imagination and skill in the production of this one-of-a-kind model. He is uniquely instrumental in the success of this test.

We would also like to thank Jon Bader, of the NASA Ames Wind Tunnel Support Branch for allowing us the use of their task sting balance for this test. We appreciate being trusted with this important NASA test resource.

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Fundamental Characterization of Spanwise Loading and Trailed Wake Vortices

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I. Introduction

Some of the most important aspects of rotor aerodynamics concern the generation and evolution of the wake system and the interaction of blades with portions of that system, especially the tip vortices. Over the years there have been a number of basic experiments performed with the goal of isolating and understanding the various types of such interactions. For instance, the parallel blade vortex interaction has been studied using pressure-instrumented rotor blades operating in the wake of an independent vortex generator by Caradonna and Tung (1981), in order to better understand the impulsive noise that occurs under approach and maneuver conditions. Another test by Kitaplioglu and Caradonna (1994) provided unsteady surface pressure and acoustic data for the validation of CFD and acoustic analyses. Another type of interaction occurs when the blade and vortex are oriented perpendicularly, which is characteristic of hover. Such interactions occur within one to two chords of the blade tip with the vortex usually being less than a chord away from the blade. These interactions determine the detailed tip loading of the blade and have been identified as a factor in the generation of mid-frequency noise. It seems also to be a contributing factor in blade stall situations.

Since the perpendicular vortex interaction is nominally steady, one would expect that detailed load studies would have long ago been performed using fixed-wing models. However, only limited measurements seem to exist. Ham (1975) performed a simple study of wing-vortex interaction and used a combination of lifting-surface computations with a sparsely instrumented wing model to deduce that there appears to be a vortex-induced lift limitation due to separation. In the 1990's, Wittmer and Devenport (1999) and Wittmer et al (1999) performed a detailed study of the wake of a wing-vortex interaction using multi-element hot-wire probes and made extensive studies of the downstream wake and turbulence evolution (and, apparently, supporting Ham's deduction). None of these studies included measurements of the actual surface pressure distribution resulting from the vortex interaction. Such a study has now been undertaken at the Army Aviation Development Directorate (ADD) at Ames Research Center.

The goal of this effort is to perform a detailed study of the loading and wake structure of a wing-vortex interaction using a combined detailed surface pressure, balance loads, and 3-component PIV measurements. The ultimate intent is to obtain data of adequate quality to validate computational simulations as well as to improve engineering models of hover performance.

The required test set-up is fairly complex. This is because: (i) the necessary pressure instrumentations is unusually dense, (ii) a large PIV area is required, and (iii) two separate models are needed, each of which must be easily repositioned throughout nearly the entire test section. An initial test of this set-up was performed recently and has successfully demonstrated the ability to measure detailed load and wake behavior for a large range of wing-vortex interactions. This paper describes the basic test set-up, range of conditions tested and the measured wing surface pressure and balance loads. A number of interesting test points will be described before making some initial conclusions. Some preliminary flow field measurements using PIV are also shown.

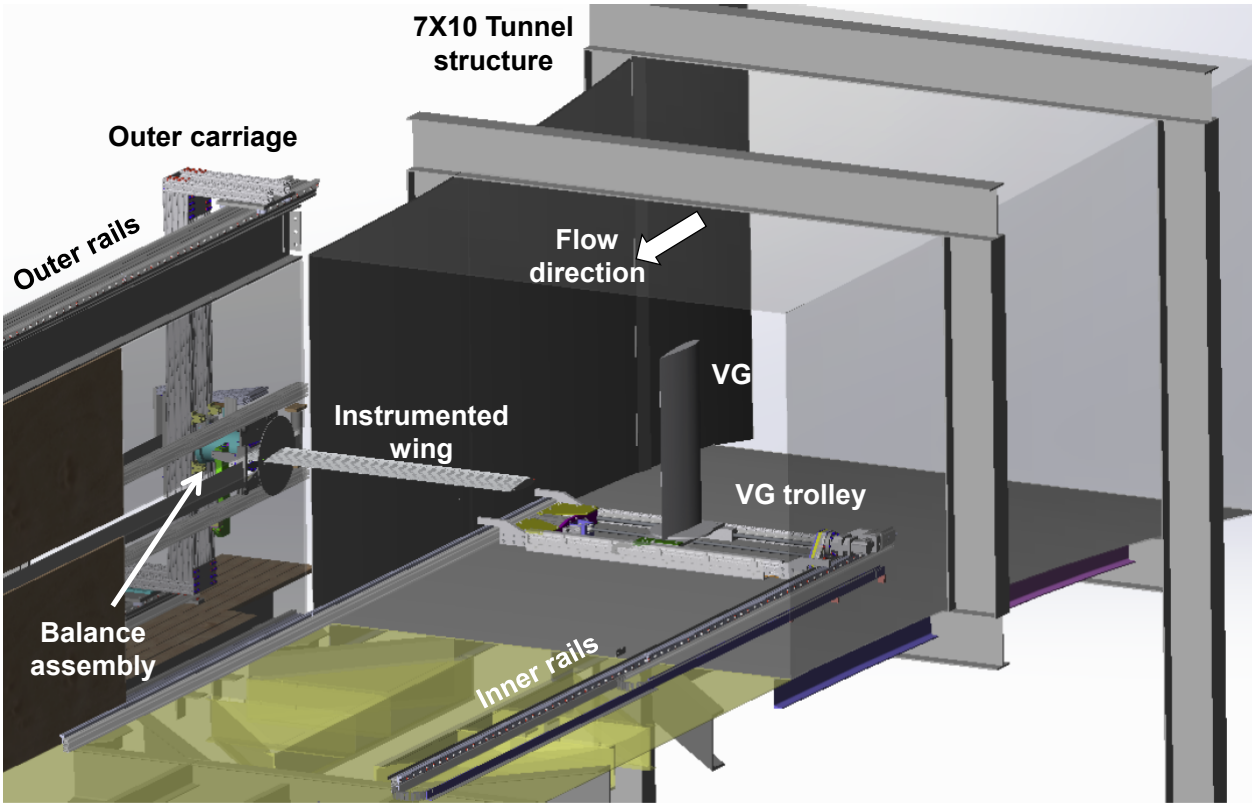

Figure 1. Overall test setup showing the wing and the upstream vortex generator in the 7×10-foot wind-tunnel.

II. Test Configuration

The test was conducted in the 7 × 10-foot wind tunnel at Ames Research Center (operating in its hard-wall mode) for a range of wind speeds up to about 280 fps. With a wing chord of 12 inch, the maximum Reynolds Number is about 1.5×10^6, which is reasonably representative of some smaller rotors. A drawing of the overall set-up is shown in Fig. 1.

In order to test a wide range of wing-vortex interactions, it was necessary that the wing and the vortex generator (VG) be independently moveable. Manual positioning (on a system of rails) was employed to move the wing and the VG in the streamwise directions (with no tunnel flow). The total range of streamwise motion of the wing and vortex generator was about 15 ft. The incidence angle of the vortex generator was also set manually. All other motions, i.e., wing angle of incidence, vortex generator height and vortex generator cross-wise (along wing span) positions, were motorized and performed remotely with the tunnel operating.

The vortex generator is a floor-mounted telescoping wing which has been used in several previous tests including the BVI tests mentioned earlier — Caradonna and Tung (1981); Kitaplioglu and Caradonna (1994). It has a chord of 18 inch and NACA0015 cross-section. The variable span of the VG permits variation of the VG tip height from 42 inch to 49 inch from the tunnel floor, allowing control over the wing-vortex interaction separation distance. For the present test, the VG was mounted on a carriage that rides on a pair of rails on the tunnel floor in the flow. The carriage contains a lateral traverse actuator permitting a remote cross-flow positioning range of over 3 ft, which allowed positioning of the interacting vortex along the wing-span from well inside mid-span to just outboard of the tip. It should be mentioned that this carriage, though it is only about 4.5 inch high, constitutes a source of blockage interference in this test. The leading edge of the carriage had an aerodynamic fairing to reduce the wake blockage effect. This, however, does not eliminate the need for an induced angle of attack correction. This is discussed further in Appendix A.

The wing is straight and untwisted, employing a slightly modified NACA0015 profile. The small modification entailed a slightly thickened trailing edge to accommodate pressure tubes near the trailing edge. It has a chord of 12 inch and a root-to-tip extent of 64.5 inch (semi-span in fixed wing terminology), and

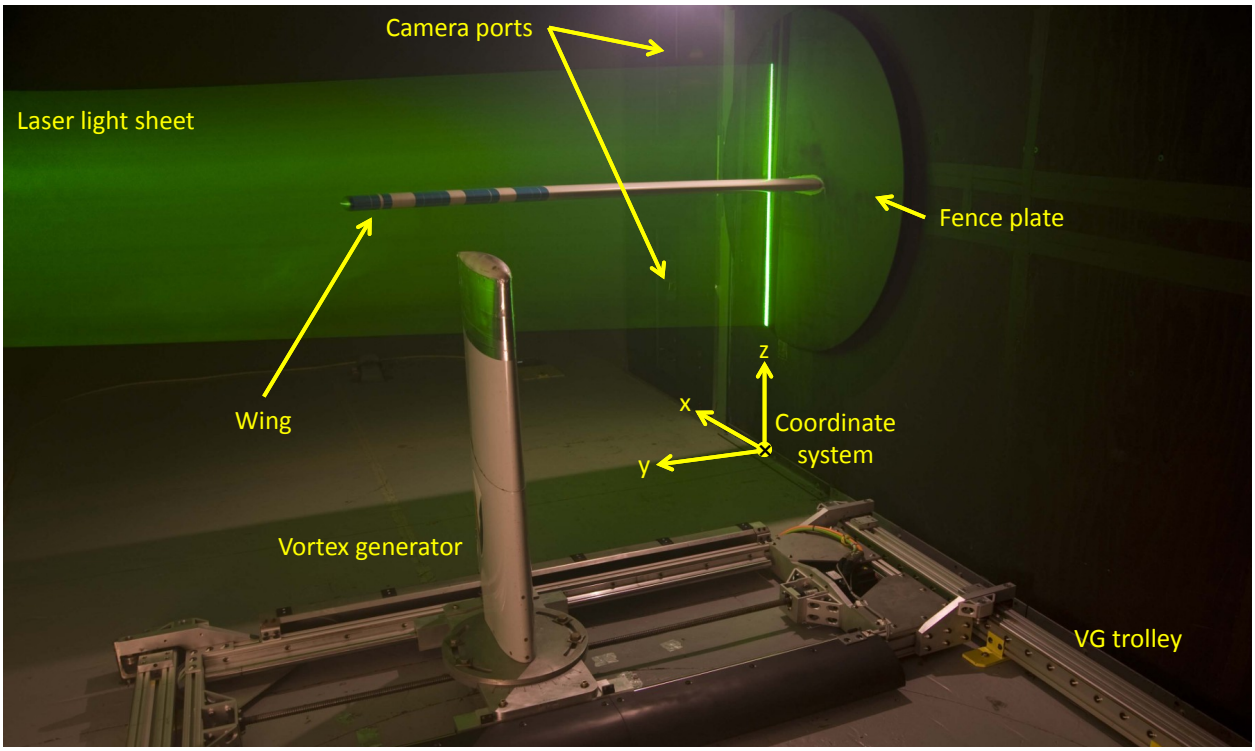

Figure 2. Photograph of the laser light sheet taken inside the tunnel (downstream view).

is mounted on the left sidewall of the tunnel at a height of 46 inch from the floor. Both the VG and the wing had a "squared" tip with a removable "rounded" tip, which was constructed as a body of rotation using the tip airfoil section. All the results reported in this work used the rounded tips on both the wing and the VG. Some measurements were performed with the squared tip on the VG to investigate the effect of vortex structure on the wing-vortex interaction. However, these results are not included in the present paper. The wing isn't mounted structurally to the sidewall, because of its motion requirement. Rather, it passes through a long streamwise slot in the tunnel sidewall and is attached, *via* a 2 inch Task sting balance, to a moveable structure exterior to the tunnel flow that rides on a set of two vertically separated rails (seen in Fig. 1). The blade pitch bearing is located on the wing side of the balance, which accordingly measured lift and drag directly (rather than normal and tangential force).

During tunnel operation, the sidewall slot is sealed except for the immediate area surrounding the wing root (to avoid balance interference). Flow through this opening can have a large effect on the wing lift. This is an issue earlier raised by McAlister and Takahashi (1991) concerning comparisons with semi-span wing measurements with and without such a span-wise root flow condition. Accordingly, in the present set-up, the wing was designed to permit attachment of a circular flow fence near the root at a distance of about 4 inch from the tunnel wall. It was found that in the absence of a fence there was indeed a large lift drop at the wing root (measured at a distance of 8 inch from the tunnel wall). However, an 18 inch diameter flow fence was found to reduce this. A 48 inch fence reduced this lift drop even further, and the main part of the test was performed with this fence. The effect of this fence on the wing lift is described shown in Appendix B. This large fence, though it greatly reduces lift loss at the root, seems also to cause local flow unsteadiness at the wing root and also contributed to balance drag owing to the small flap and lead-lag motion of the wing under loading. There was insufficient time to determine the nature of the unsteadiness and the drag contribution is to be examined further.

II.1. Particle image velocimetry

An important element of this test is to measure the wing-vortex wake system and then to relate this to the blade loads. Velocity field measurements behind the wing/vortex generator were made using stereoscopic particle image velocimetry (PIV). The PIV system included two 16 megapixel cameras (4900×3280), dual pulse Nd:YAG lasers producing 540mJ/pulse, and a mineral oil fog generator that produced seed particles of

size 0.9 microns. The entire wind tunnel was filled with smoke before beginning each acquisition. Retention of this smoke required closure of the tunnel air exchanger, with a resulting thermal limitation on tunnel operation on warm days.

The laser system was placed outside the test section and was used to generate a light sheet that was 1.2 mm thick, which illuminated a planar region of interest (ROI) normal to the tunnel flow measuring over 3.5×2 ft (1100×550 mm). This ROI was located at the rearmost location of the test section. Measurements over such a large ROI introduced optical challenges including the need to minimize the beam expansion angle (to preserve the intensity) while maintaining the light sheet thickness constant (for known correlation issues) over the entire length of the ROI. These required using a combination of convex/concave lenses and mirrors to expand the laser beam over a distance of 30 ft before entering the test section and ROI. Figure 2 is a photo taken inside the tunnel showing the laser light sheet relative to the installed wing. The wind-tunnel coordinate system is also shown in Fig. 2 with the origin on the tunnel left sidewall, on the tunnel floor and aligned with the PIV laser sheet in the streamwise direction. The y-coordinate also corresponds to the wing span station from the tunnel sidewall.

The cameras were mounted outside the test section on the opposite wall from where the laser light entered the test section to allow forward scattering. Viewing of the light sheet was made possible through the use of BK7 windows (which are essentially non-refractive at the primary laser wavelength). The line of sight to the ROI dictated the placement of cameras, which were located downstream of the ROI and were vertically separated on opposite sides of the tunnel centerline. This arrangement required the unusual use of a compound Scheimpflug (two-axis lens rotation and shift) procedure to achieve uniform focus across the entire ROI. The laser pulse interval was chosen based on the wind tunnel speed. In general, the interval was selected such that the smoke particles travelled about 1/4th of the light sheet thickness between pulses. Two hundred stereo-image pairs were acquired for each test case.

Because of the alignment sensitivity of the optics, the location of the cameras, lasers, and light sheet remained unchanged throughout the entire experiment. The downwind distance from the wing to the light sheet was varied then by moving both the wing and the vortex generator as a unit — this is also a primary reason for the model motion requirement in this test.

II.2. Surface pressure measurements

In order to measure the detailed loading on the wing, it was fitted with an extensive array of static pressure tubes buried under its surface and connected to a Scani-Valve pressure measurement system. A large number of chordwise pressure taps was needed to resolve large vortex-induced load gradients over a range of span locations. To maximize the number of pressure tubes, the wing employed 0.032 inch O.D. tubes with pressure tap holes of 0.012 inch diameter, which permitted the installation of about 250 tubes along the wing surface in the chordwise direction. The present wing fabrication scheme was modeled after pressure instrumented wing models commonly used in high Mach number testing. However, the standard fabrication technology used therein, employing stainless steel models with soldered pressure tubing, would have been far too expensive for the present application — a modified fabrication scheme was devised for this test.

The basic wing was constructed from a 6064 Aluminum billet in an all-digital process. The Aluminum wing core included the groove array for the pressure tubes. These tubes (made of brass for improved bond strength and to minimize drilling forces) were epoxy bonded (including cleaning, etching and rinsing — a process similar to that used in strain gage bonding) in the grooves and then thoroughly "plastered over" with the same epoxy bond. This outer epoxy surface was then machined to the final outer profile (less the thickness of a subsequent layer of polyurethane paint). The final step in this process was to drill the tap holes. This drilling process was a somewhat harrowing step (in spite of rehearsals, and frequent bit changes to avoid dulling), since the pressure tubes were not visible and the process relied entirely on the precision of the digital blade model and tool motion control. The primary issue with accuracy was to produce tap holes with clean, sharp-edged holes, requiring that the delicate drill bits hit the buried pressure tubes squarely and with minimum force to avoid sliding, hole distortion and tool breakage. A year of fabrication effort depended on this operation, which was quite successful — over 1000 clean pressure tap holes were drilled under automatic control in only a few days with no marred holes or broken drill bits.

Figure 3 shows a wing cross section including the placement of the chordwise distribution of pressure tubes, which extend for the entire length of the wing. These tubes are arranged in 45 chordwise groups of 5 closely spaced tubes. In order to measure the pressure at the required number of span stations, it was necessary to drill multiple tap holes in most of the tubes. Of course, all but one of these holes must be sealed

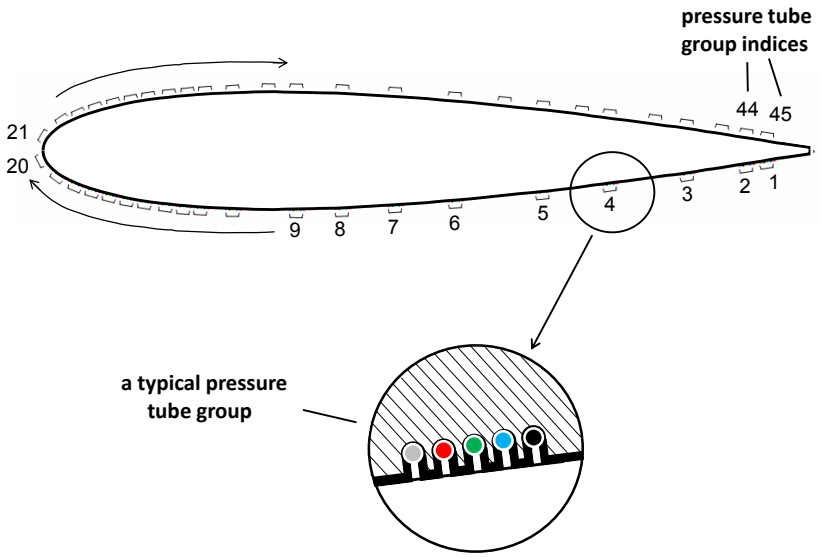

Figure 3. A wing cross section showing the pressure tube array that is arranged in 45 groups of closely spaced tubes. Pressure tap holes are drilled into these tubes in multiple span locations, permitting the measurement of chordwise pressure distribution at 21 span locations.

with strips of tape at any one time. A 0.75 inch wide and 0.004 inch thick low residue tape was used over the entire chordwise surface to minimize the effect of tape on the wing boundary layer, and ultimately on the wing loading. We chose to drill 5 taps in 4 tubes of each 5-hole group, with the fifth tube having a single tap at the 30 inch span station. This permits the measurement of chordwise pressure distribution at 21 span stations extending from 8 inch (from the tunnel wall) nearly to the wing tip — with the greatest concentration being in the outer 33% of the wing. The main difficulty with this technique is that the acquisition of a full set of data requires 4 tape changes, which is a relatively slow process (stopping/starting the tunnel and tape changing requires a minimum of 30 minutes).

Figure 4 shows the spanwise locations of the pressure taps. The different colors indicate the spanwise tap arrays that share the same set of tubes and can only be measured one at a time. The baseline tap array was the one used first to get an overall picture of the spanwise wing loading and provided measurements at 8, 30, 46.5, 52.5 and 58.5 inch span stations. This was followed by the other tap arrays to complete the spanwise loading distribution.

III. Pressure measurements & discussion

Wing surface pressure measurements and balance load measurements were taken under following general conditions to better understand of the wing-vortex interaction effects:

- Data was acquired with VG incidence angles of 4 and 8 degrees.
- The wing angle of incidence was varied minimally. Most data was taken with a wing angle of 7 degrees, and some data was also acquired at a wing angle of 11 degrees.
- Data was also acquired for a range of tunnel speeds, but most data was obtained at tunnel dynamic pressure $q = 70$ psf, which corresponds to roughly $V_\infty = 280$ ft/s and is shown in the paper.

Initial tests allowed construction of a loading map for sets of nominal VG spanwise locations and height. It should be noted that the actual vortex location may vary from these VG tip locations. The test conditions in terms of nominal vortex location are summarized here:

- Wing only data (no interacting vortex)

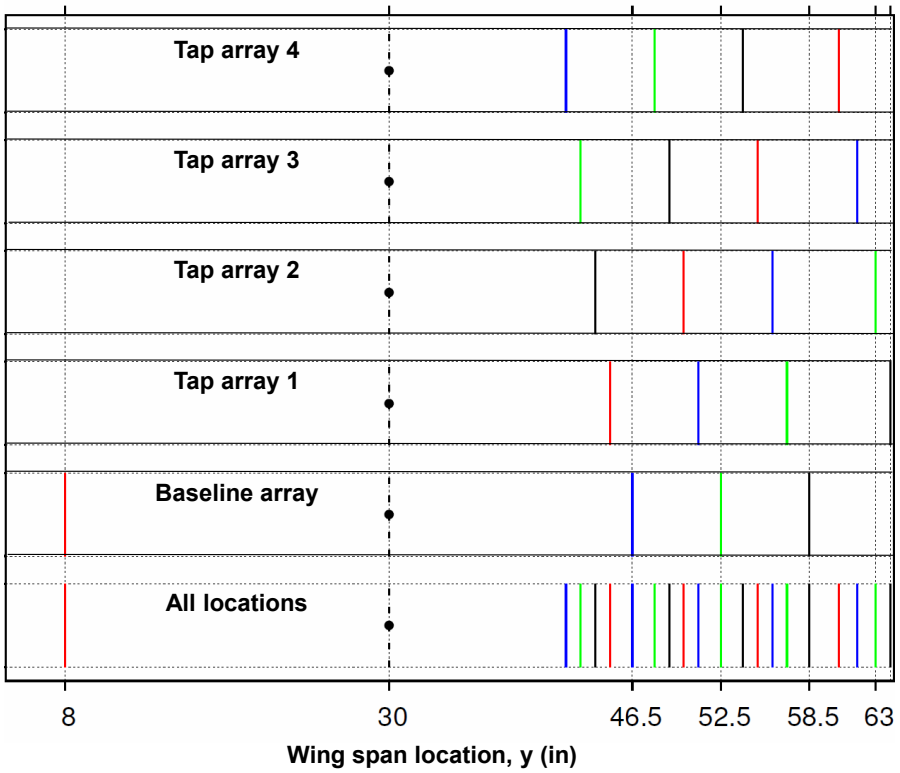

Figure 4. Sequence of tap arrays used to complete spanwise pressure measurements.

- Variation of the nominal vortex spanwise location with respect to the wing. These varied from y=42 inch to y=64.5 inch from the left sidewall (wing semi-span is 64.5 inch).
- Variation of the vortex height, which implies the miss distance between the wing and vortex. This height varied between 42 inch to 49 inch from the floor. This corresponds roughly to varying the vortex separation distance from 4 inch below the wing to 3 inch above. This range is determined by the telescoping distance of the vortex generator. A larger range would have been possible by inserting various removable tip sections to the VG, but time did not permit this.
- Variation of the VG to wing streamwise separation distance, which was measured as the distance between the quarter chord of VG and that of the wing. Such data were acquired at distances of 3 ft, 6 ft and 9 ft with the intent of capturing vortex aging effects.

The above set of run conditions constituted a far larger test matrix than that could be completely filled in the allotted time. The focus of the test was rather to concentrate on particular data sweeps that demonstrated the most prominent flow effects. PIV data was also acquired corresponding to many of the above test configurations for a range of downwind distances between 1 inch and 5 ft behind the wing trailing edge. Pressure data was not acquired during the PIV phase of data acquisition, as the taps were taped over to prevent possible smoke entry into the pressure tubes. The balance data provided a check of repeatability and consistency of the test conditions.

III.1. Isolated wing loading

Wing surface pressure data using the baseline spanwise tap array was initially acquired in the absence of the vortex generator (though with the vortex generator carriage and rails installed). This allowed early indication of the effect of root flow fence on the loading and led to fabrication of the larger fence plate, as discussed earlier. Later tests with all the spanwise tap arrays were performed with the VG installed on the trolley. A fair approximation to the wing-only test condition was obtained by setting the VG at zero incidence angle and located far outboard of the tip at the minimum height (41.5 inch, 4.5 inch below the wing). This ensured that nearly identical blockage effects were present between the wing-only and wing-vortex interaction cases.

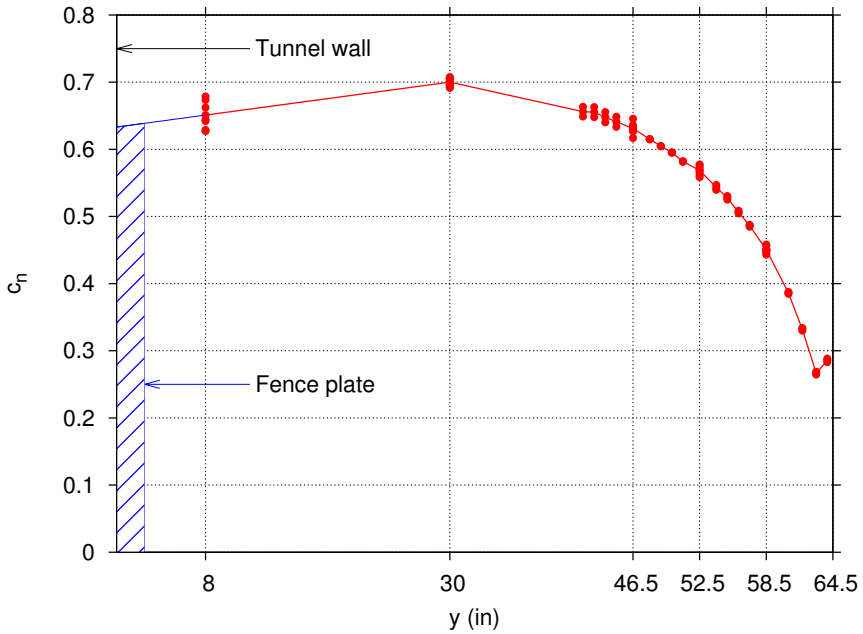

Figure 5. Example wing loading distribution from surface pressure integration, $\alpha_w = 7°$, $q = 70$ psf.

Figure 5 shows such spanwise variations of lift coefficient data obtained by an integration of the surface pressures. This particular set of raw data is a frequently duplicated condition (housekeeping test point) obtained over a large span of time during which a number of tape changes were performed. For some span stations only two measurements was made, while for others there are quite a number of measurements. As a result, there is a varying degree of scatter in the data. Much of this variation is a result of normal tunnel unsteadiness magnified by the fact that the surface pressure instrumentation and the tunnel instrumentation have different time constants — longer acquisition runs will minimize such variations. Currently, the pressure data was averaged over a 8 second measurement window. The largest data spread is seen at a span of 8 inch. This is probably a reflection of the unsteady root flow processes previously mentioned. Note that there is no data inboard of the 8 inch station. In integrating this data to obtain total lift the data between the 8 inch station and the root fence is assumed to be a linear continuation of the outboard data. However, the lift between the root fence and the tunnel wall (the cross-hatched area in Fig. 5) is unknown. The sectional normal force coefficients can then be integrated to obtain a wing normal force coefficient, which is quite close to the wing lift coefficient since the chordwise force coefficients are small. In this process, it is necessary to make some loading assumptions inboard of the root fence (to be discussed later) But first, it is useful to show some of the detailed chordwise pressure distributions.

Figure 6 shows the chordwise pressure distribution at the last two span stations in Fig. 6. The chordwise distribution at 0.5 inch from the tip is seen in Fig. 6(a). At this station the wing's tip vortex passes over the rearmost pressure taps causing a large negative pressure region in Fig. 6(a) and a lift "spike" in Fig. 5. The next inboard station, which is only 1 inch further inboard, does not show any effect of the tip vortex and the resulting pressure distribution, as seen in Fig. 6(b), is fairly normal and very similar to other inboard stations. The pressure distribution there is suggestive of a small bubble in the leading edge adverse pressure region, and a slight lift reversal at the trailing edge, probably due to some boundary layer separation.

Figure 7 provides a comparison of the wing lift coefficients, for a range of wing incidence, obtained from the integrated pressures and the balance. Recall that the lift is unknown on the small section of wing between the tunnel wall and the fence. If the wing lift on the tunnel wall side of the fence is assumed to follow the loading distribution further outboard, then the integrated lift coefficient appears to be almost 4% higher than that from the balance measurements. On the other hand, when the region of the wing between the fence and the tunnel wall is assumed to carry no lift, the pressure integration results and the balance measurements are within 2%. Clearly, the lift between the wall and the fence is quite small. In all cases (not shown here) the pressure integrated lift is about 1% to 2% higher than the balance measurements. Some of this difference may also be due to insufficient resolution of the tip lift spike, but in general the comparison between balance and pressure derived lift is very good. Similar comparisons have been made between integrated pressure

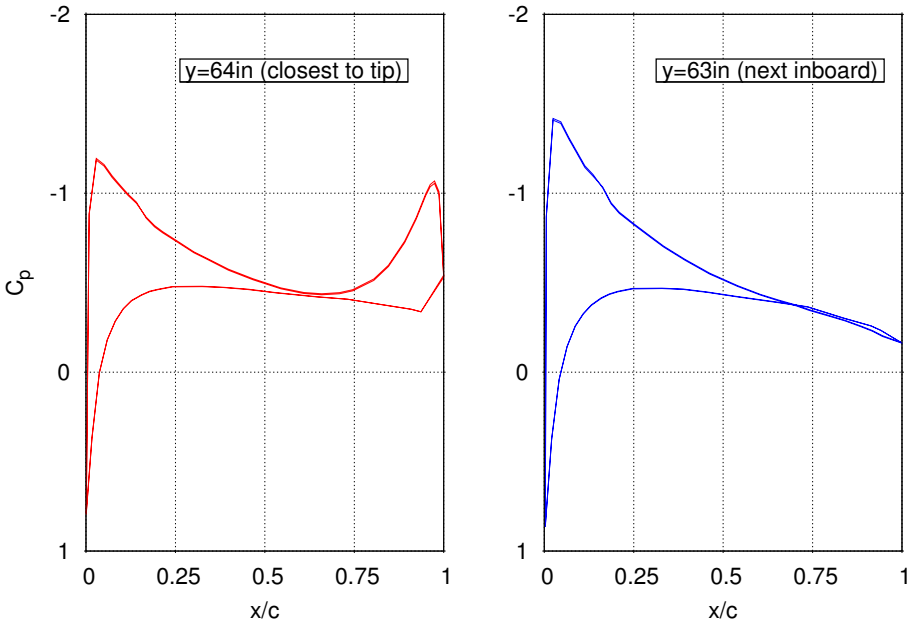

Figure 6. Example wing surface pressure distribution at the two spanwise stations closest to the tip, $\alpha_w = 7°$, $q = 70$ psf.

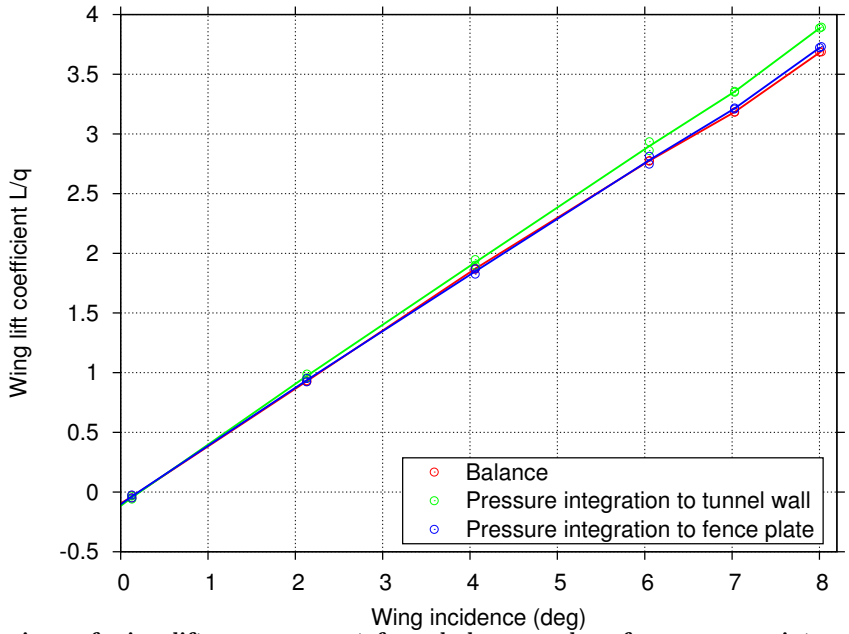

Figure 7. Comparison of wing lift measurement from balance and surface pressure integration for different incidence angles, $q = 70$ psf.

and balance for chordwise forces. However, these are much more complex than the normal forces because it is required to deduce a drag tare for the large root fence. With increasing drag the wing bends (at the balance near the wing root) in both streamwise and normal directions resulting in a non-constant drag tare, the nature of which is currently undetermined. Therefore a detailed discussion of drag/chordwise forces is currently deferred.

III.2. Wing-vortex interaction

Before analyzing the wing-VG vortex interactions, it is essential to understand the procedure followed to determine the VG vortex location with respect to the wing. As mentioned earlier, the actual vortex location, with respect to the wing, will be different from the VG tip location due to flow induction and wing flap

bending. While the vortex position with respect to the wing was not always measured directly using flow visualization, we can infer from pressure measurements that it is of the order of quarter inch from the VG tip location in the wing spanwise direction. The effect of wing deformation is also of similar magnitude. In the vertical direction, a direct wing-vortex interaction occurs when the VG tip is nominally at the same height from the tunnel floor as the wing, although this varies with the VG incidence angle as well as wing/VG streamwise separation distance. More precise vortex position data was inferred from the PIV flow field measurements for some, but by no means all, of the pressure measurement cases. In this paper we describe various wing-vortex interactions in terms of the nominal vortex location, which is 0.25 inch outboard of the VG tip location in the spanwise direction. For the wing height of 46 inch from the tunnel floor, the VG height for a direct vortex interaction is summarized in Table 1.

Table 1. VG tip height for a direct wing-vortex interaction.

Streamwise wing-VG separation	VG incidence	VG tip height
3 ft	4 deg	46.0 inch
3 ft	8 deg	46.5 inch
6 ft	4 deg	46.5 inch
6 ft	8 deg	47.0 inch
9 ft	4 deg	47.0 inch
9 ft	8 deg	47.5 inch

As a first typical wing-vortex interaction condition, consider the interaction of the wing set at 7°incidence angle with the vortex that trails from the VG located 3 ft upstream of the wing, 52.25 inch from the tunnel left sidewall and the VG tip set at a height 46 inch above the tunnel floor, with a VG incidence of 4°. The nominal vortex interaction location, then, is 1.0 chord inboard from the wing tip (52.5 inch from wing root) and a direct hit, i.e., vertical separation distance, $\Delta z = 0$ inch. Figure 8 shows the resulting spanwise variation of normal and chordwise force coefficient (obtained by pressure integration) for the above wing vortex interaction superimposed on that occurring in the absence of the vortex. The effect of this particular wing-vortex interaction is to decrease the wing lift (measured by the balance) by 9% and to decrease the wing drag by 6%, that is the vortex interaction diminishes the wing L/D. An interesting feature of the vortex-induced loading increment is that the ΔC_n is asymmetrical about the span location of vortex interaction. That is, the lift increase outboard of the vortex is far less than the lift decrease inboard of the vortex. The induced flow of the vortex from the VG was investigated as a possible explanation of this asymmetry. However, the PIV flow field measurements did not show a gross asymmetry in the VG tip vortex induced flow field. It was, therefore, assumed that this asymmetry is, at least partially, due to the finite wing span.

Figure 9 shows this vortex-induced lift asymmetry for three spanwise vortex interaction locations at 0.5, 1.0, and 1.5 chord inboard of the wing tip. It appears that the asymmetry is decreasing with vortex distance from the wing tip, but at a fairly low rate. To better explore this asymmetry in the vortex induced lift on the wing, measurements from a series of spanwise vortex interaction locations are shown in Fig. 10 in the form of the change in lift coefficient due to vortex interaction, i.e., $\Delta C_n = C_{n_{\text{wing with vortex}}} - C_{n_{\text{wing only}}}$, and was plotted as a function of the distance relative to the nominal vortex interaction location, i.e., $y - y_{\text{vortex}}$. This allows presenting a number of wing-vortex interaction locations on the same plot and the results are remarkably similar. The measurements collapse nominally to the same curve on the inboard side but show increasing asymmetry on the outboard, at least in part due to the influence of the wing tip.

Example calculations of this wing-vortex interaction using classical Prandtl's lifting line theory is shown in Fig. 11 for this most inboard vortex interaction. The calculations show a similar trend as the measurements with increasing asymmetry in the lift change due to the vortex interaction, as the interaction occurs closer to the wing tip. However, the asymmetry is much smaller than that observed in the experiment, especially at interactions further away from the wing tip.

Figure 12 shows the effect of vertical separation between the wing and the interacting vortex. The difference between the lift coefficients obtained with and without the vortex, ΔC_n, and is plotted as a function of wing span location for the vortex interactions at nominally 52.5 inch with a vertical separation of -2.0 inch (vortex is above the wing), 0 inch (direct hit), and +2.0 inch (vortex is below the wing). While all

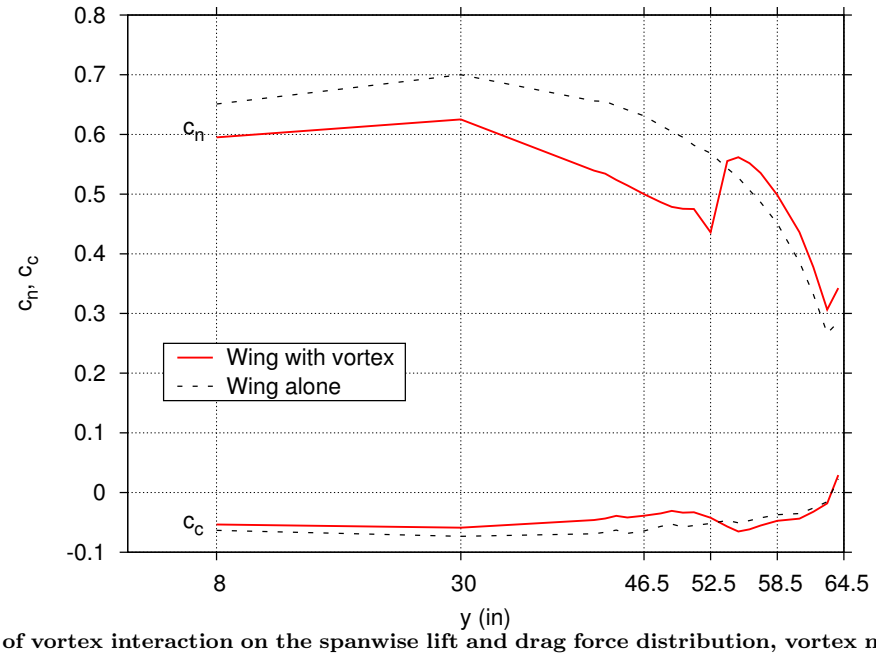

Figure 8. Effect of vortex interaction on the spanwise lift and drag force distribution, vortex nominally at 52.5 inch spanwise location and 0 inch vertical separation, $\alpha_w = 7^\circ$, $\alpha_{VG} = 4^\circ$, $q = 70$ psf.

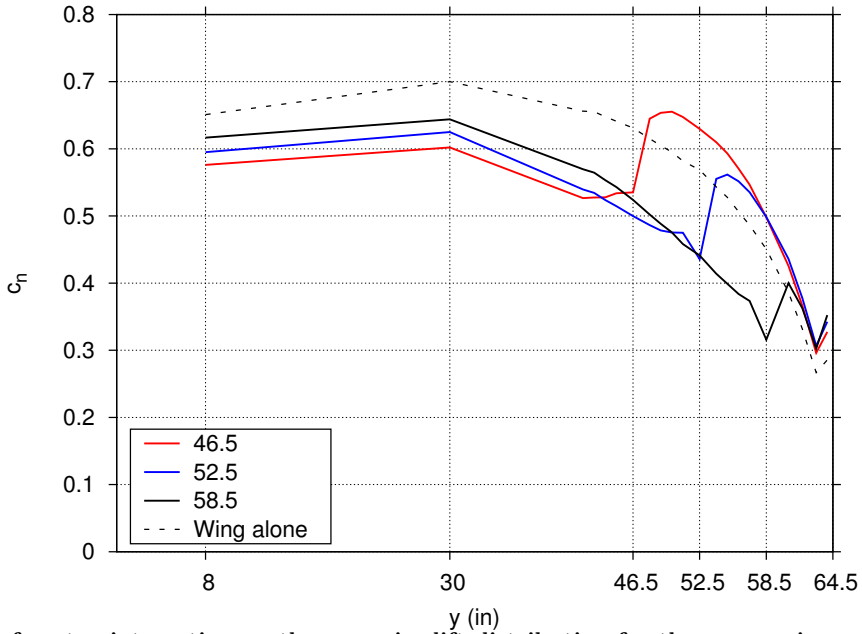

Figure 9. Effect of vortex interaction on the spanwise lift distribution for three spanwise vortex locations at 0.5, 1.0, and 1.5 chords from the tip (58.5 inch, 52.5 inch, and 46.5 inch respectively) with 0 inch vertical separation, $\alpha_w = 7^\circ$, $\alpha_{VG} = 4^\circ$, $q = 70$ psf.

three vertical vortex locations are similar, the nominal "direct hit" case, displays more extreme gradients, some of which are unexpectedly sharp. The sharp decrease in lift just inboard of the vortex interaction, marked by an open circle on the plot, is interesting and the surface pressure distribution corresponding to this case is examined.

Figure 13 shows the chordwise pressure distribution for the nominal "direct hit" case (at the location of the interacting vortex) compared to that for the wing with no interacting vortex. While, the pressure distribution is not obviously unusual, in spite of the rather sharp character of the lift, it is indicative of close passage of the vortex to the lower surface of the wing. This interaction involves a relatively weak vortex. It will be seen that the interaction changes dramatically with vortex strength.

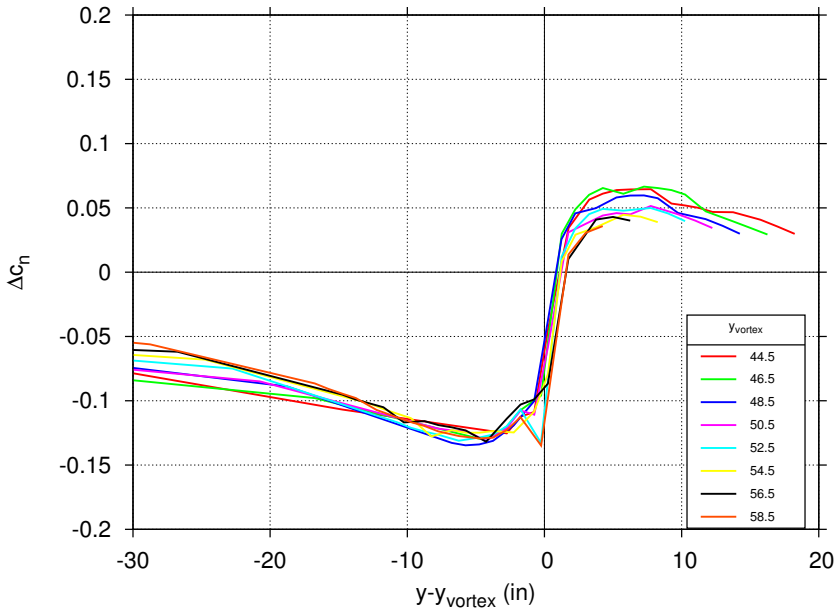

Figure 10. Effect of vortex interaction on the incremental lift force distribution for a series of spanwise vortex locations with nominally 0 inch vertical separation, $\alpha_{\rm w} = 7°$, $\alpha_{\rm VG} = 4°$, $q = 70$ psf.

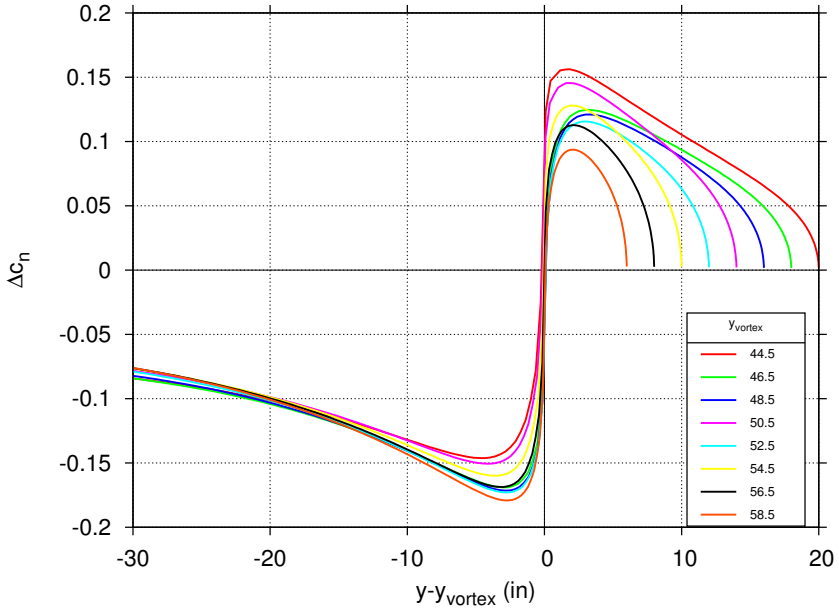

Figure 11. Lifting line calculation of the spanwise lift distribution for vortex interaction at several spanwise locations with 0 inch vertical separation, $\alpha_{\rm w} = 7°$, $\alpha_{\rm VG} = 4°$, $q = 70$ psf.

Figure 14 shows the spanwise wing loading for a range of spanwise vortex location for a nominal "direct hit". This figure differs from Fig. 10, however, in that the former uses a VG incidence angle of 4°while the latter employs a VG angle of 8°. In this case, the ordinate is not the wing span location, but rather the spanwise location to the vortex interaction location, i.e., $y - y_{\rm vortex}$. The two figures also appear very similar except for the scale of the induced lift variation, consistent with the VG incidence angle. For the higher VG incidence angle, it is seen that lift peaks of unusual sharpness are observed more frequently.

Figure 15 shows the spanwise vortex induced lift variation as a function vertical separation between the wing and the vortex, again for a VG incidence of 8.°For this stronger vortex, the above mentioned lift spikes are seen more often. When the vortex is somewhat below the wing, negative spikes occur, while for a vortex slightly above the wing, positive spikes are seen. However, for a direct hit there are no spikes, probably reflecting a rapid destruction (dissipation/diffusion) of the vortex core structure following direct interaction

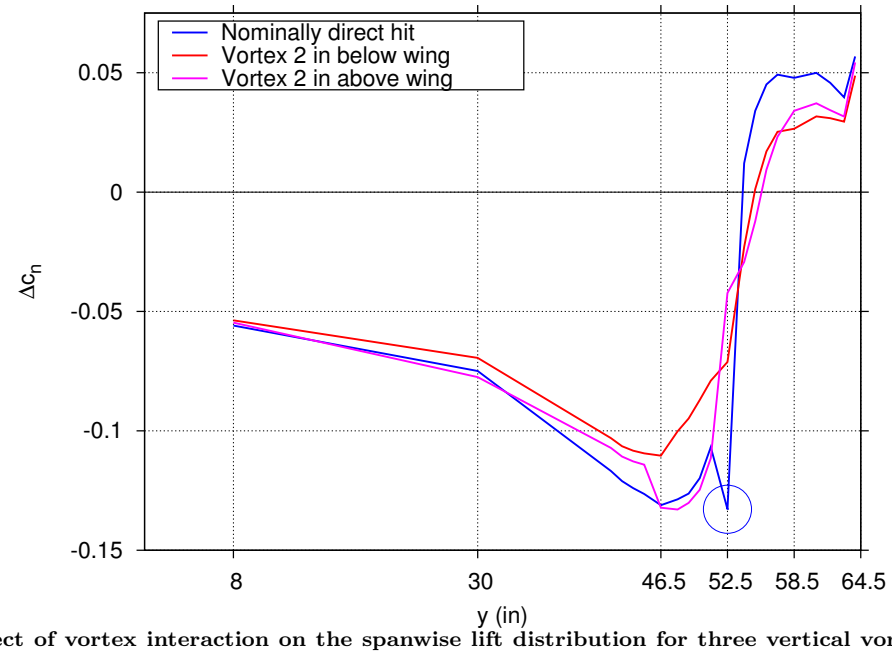

Figure 12. Effect of vortex interaction on the spanwise lift distribution for three vertical vortex separations (-2, 0, and 2 inch) at 52.5 inch spanwise location, $\alpha_w = 7°$, $\alpha_{VG} = 4°$, $q = 70$ psf.

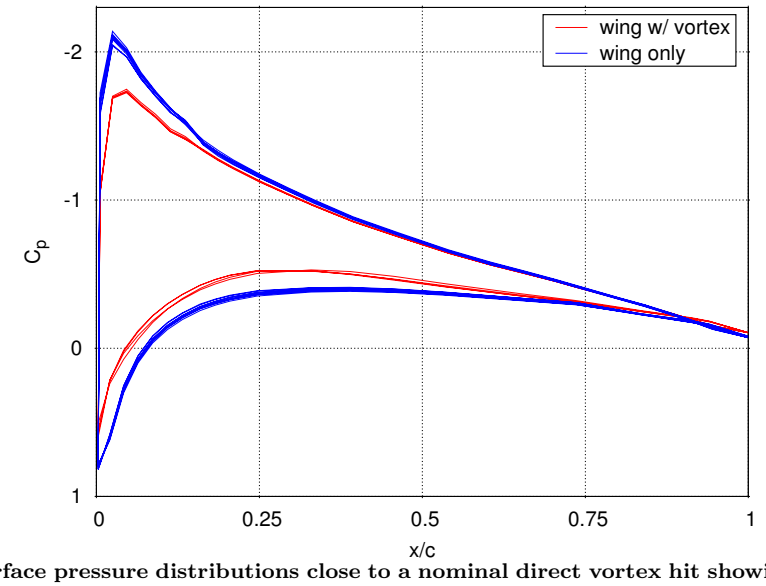

Figure 13. Wing surface pressure distributions close to a nominal direct vortex hit showing effect of the vortex passing close to the wing lower surface, $\alpha_w = 7°$, $\alpha_{VG} = 4°$, $q = 70$ psf.

with the wing.

III.3. Wing Surface Pressure Distributions

To better understand the nature of these "spikes" in spanwise lift distribution, Fig. 16 shows select chordwise surface pressure distributions at spanwise locations close to the interacting vortex. The corresponding spanwise loading distribution is also shown and the four pressure measurement locations are identified with open circles on these plots. This particular sequence of data does not include a "nominal direct hit", mainly because these sharp lift spikes were absent in that case. It is seen that when the vortex is about 1.5 inch from the blade it produces a lift spike that results from the low pressure vortex core passing either above or below the wing. At this distance one side of the wing (either the upper surface or lower surface) sees the vortex core as a low pressure perturbation that is roughly constant with chordwise distance — from this behavior we surmise that the core is passing close enough to affect the sectional load, but not so close as

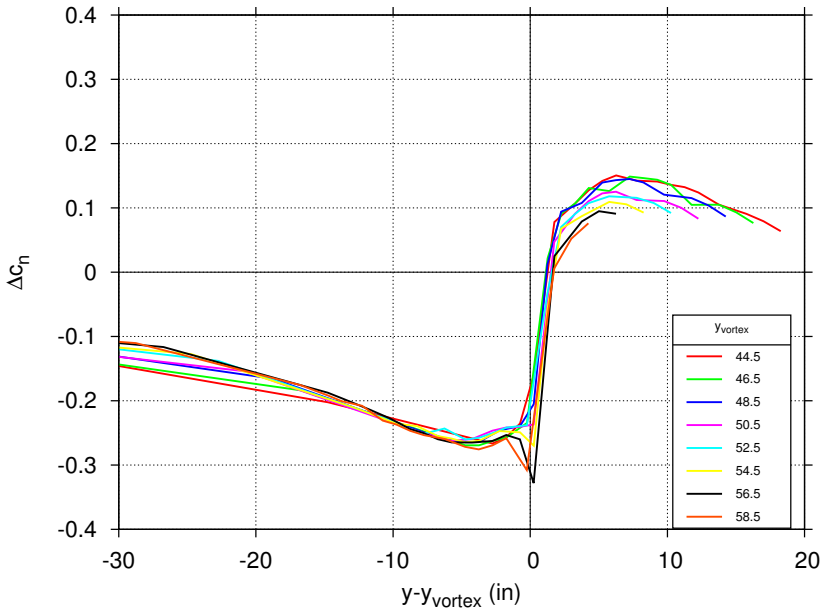

Figure 14. Effect of vortex interaction on the incremental lift force distribution for a series of spanwise vortex locations with nominally 0 inch vertical separation, $\alpha_{\mathrm{w}} = 7°$**,** $\alpha_{\mathrm{VG}} = 8°$**,** $q = 70$ **psf.**

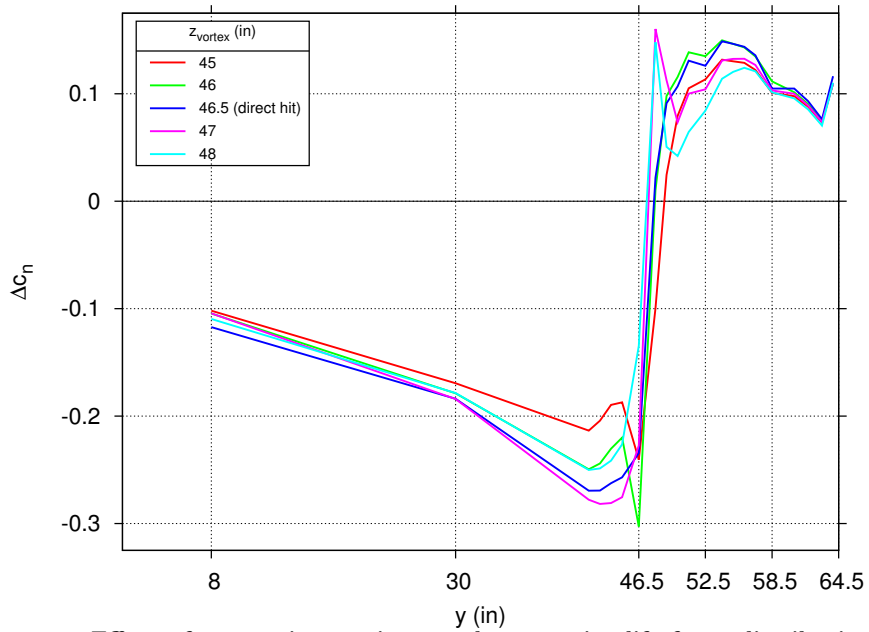

Figure 15. Effect of vortex interaction on the spanwise lift force distribution for several vertical vortex separations (-1.5, -0.5, 0, 0.5, and 1.5 inch) at 46.5 inch spanwise location, $\alpha_{\mathrm{w}} = 7°$**,** $\alpha_{\mathrm{VG}} = 8°$**,** $q = 70$ **psf.**

to interact with it. Something different happens when the vortex passes within 0.5 inch of the wing. In this case, a low pressure perturbation again occurs, but it is no longer constant — rather it peaks and then decreases, effectively to zero, at the trailing edge. We surmise that is indicates the core interacting with the wing — it is possible that such close interaction will probably make the core unstable and effectively break it up quite rapidly.

In order to better see the progression of the above interaction, a finer sequence of vortex vertical positions is necessary, but not sufficient. A finer sequence of spanwise pressure measurements is also required. In general, with a fixed VG crosswise position, the spanwise resolution of the interaction remains limited to the minimum spanwise pressure tap spacing of 1 inch. We know that for an infinite wing the surface pressures

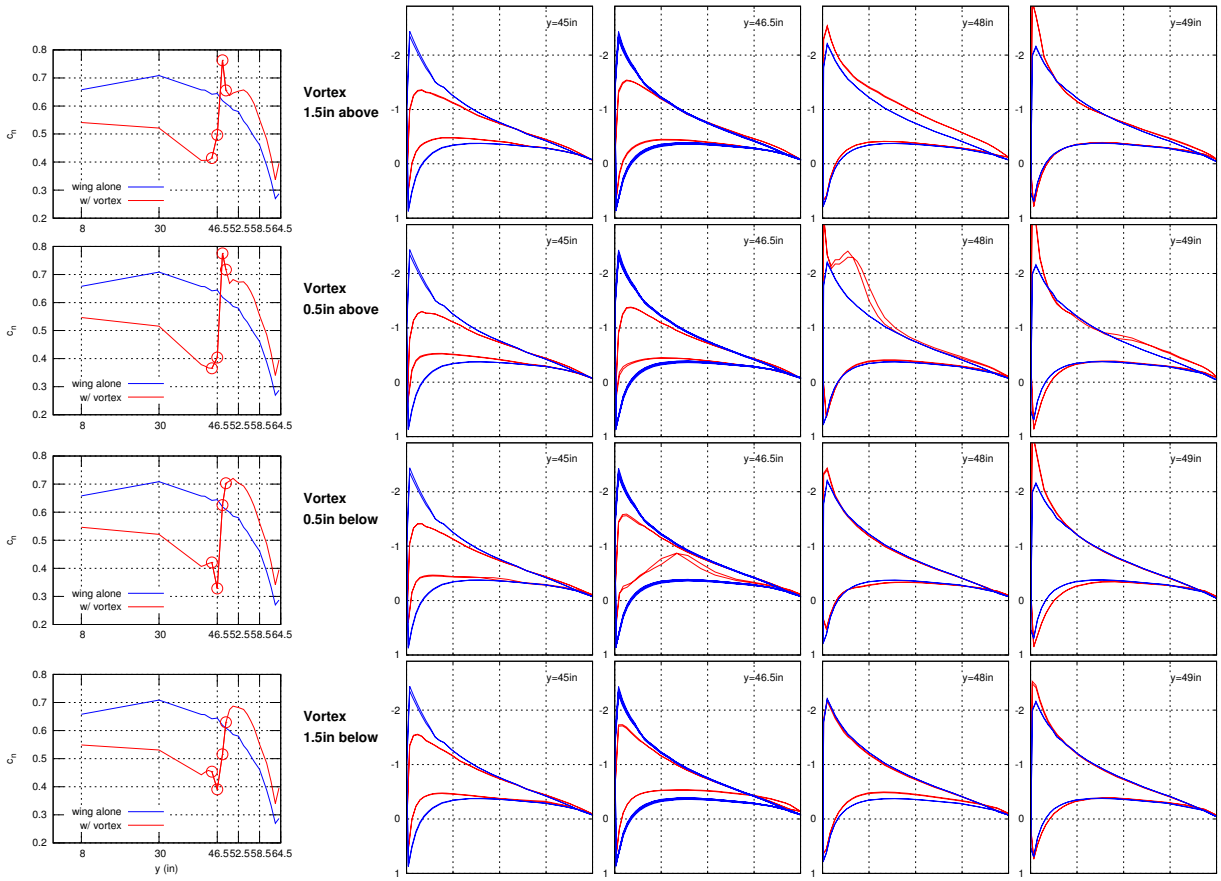

Figure 16. Effect of vortex interaction on the surface pressure distributions for several vertical vortex separations (-1.5, -0.5, 0, 0.5, and 1.5 inch) at 46.5 inch spanwise location, $\alpha_w = 7°$, $\alpha_{VG} = 8°$, $q = 70$ psf.

would be solely a function of vertical and spanwise distance of a measurement point to a passing vortex — so that with a spanwise traverse of the vortex, a single pressure measurement station would suffice to describe the entire load distribution. It is reasonable to assume that, at a sufficient distance inboard from the tip, it should be possible to assume that the flow behaves locally like such an infinite wing. That is, at a sufficient distance from the tip, a limited spanwise movement of the vortex should simulate a finer spatial resolution than provided by the pressure station spacing. To test this, a finer sweep of the VG was performed in both the vertical and spanwise directions, in 0.5 inch increments. The spanwise range of VG motion was from 41.5 inch to 45 inch and pressure measurements were performed with the tap array 4 (see Fig. 4). This gives a map of vortex locations *relative* to the pressure measurement location as shown in Fig. 17. The chordwise surface pressure distribution corresponding to each of these points is shown in Figure 17. In this figure we see a number of nearly, but not quite identical chordwise pressure distributions for each vortex vertical/spanwise location. This occurs because with vortex movement a number of differing physical measurement stations can have the same separation distance from the vortex — and since each of these stations has a different spanwise location, the tip influence will vary accordingly. The resulting pressure distributions, though not identical, are seen to be quite similar, so much so that averaging them would result in little loss of information. So the local "infinite wing" assumption appears to be valid at this distance from the tip.

This resulting higher resolution figure shows vortex induced pressure perturbations similar to those seen earlier in Fig. 16. However, it also shows the additional feature that the lower surface stagnation point is seen to disappear in a quite narrow region. The narrowness of this region suggests that it is a good marker of a vortex "direct hit". In the future, this should be confirmed by direct observation (say, using by PIV or smoke flow visualization). For the present, we have labeled this vortex height (with respect to the wing) as "direct hit" in Fig. 17. The actual vortex generator tip height corresponding to this "direct hit" is 46.5 inch as given earlier in Table 1, which is also the case for Fig. 16. We may now summarize the wing

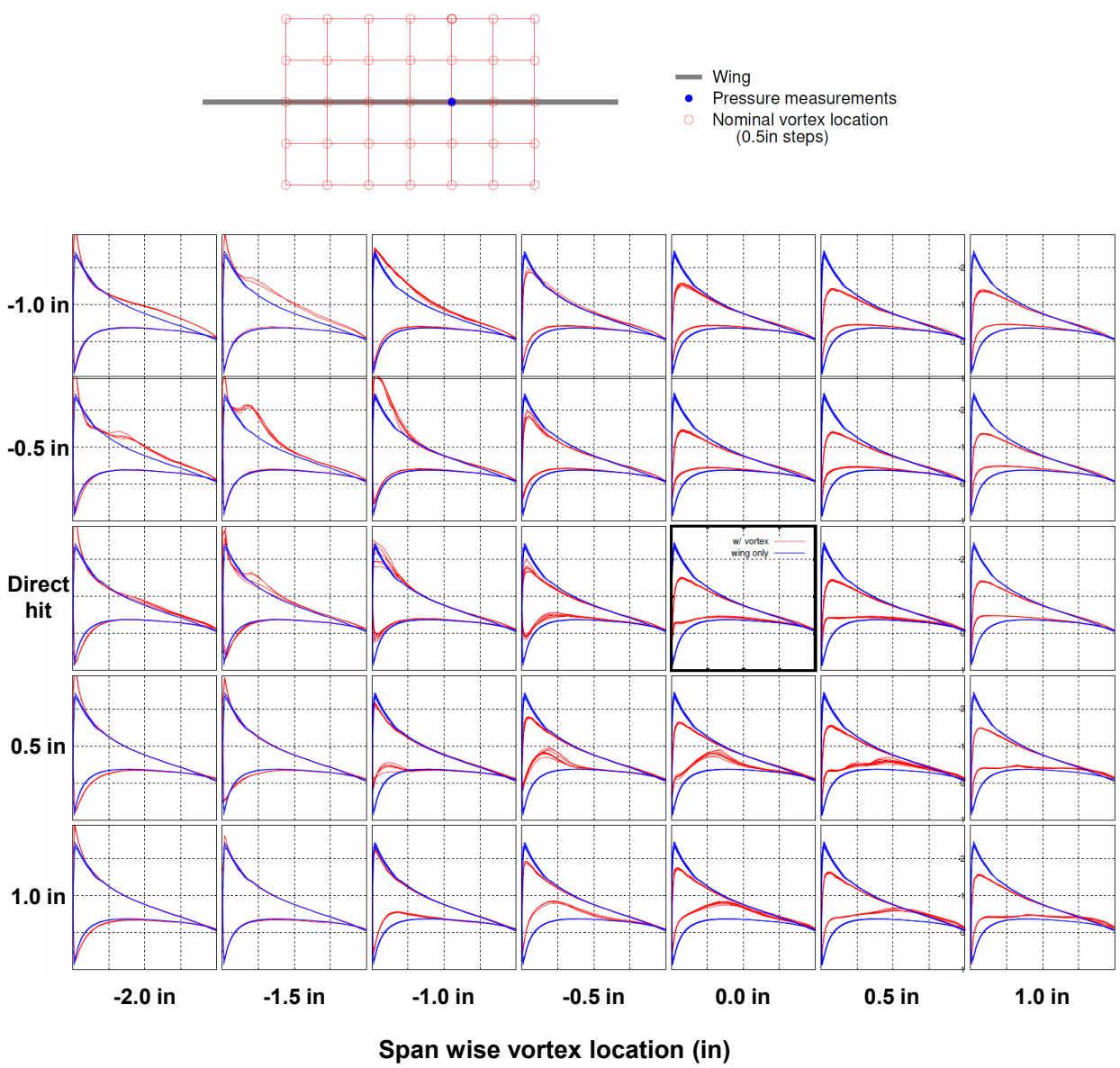

Figure 17. A representation of the wing-vortex interaction constructed from half inch vertical and horizontal increment vortex sweeps, while assuming that the tip influence on surface pressure gradient is negligible.

vortex interaction by considering it to have three distinct regions: (i) that region where the effect of the vortex is seen only as a perturbed induced flow angle, (ii) that region where the wing sees (i.e. it's loads are affected by) the vortex core low pressure region, but does not interact with the vortex (at the wing, though such interaction may occur further downstream), (iii) that region where the wing interacts strongly with the vortex causing a major disruption of the core structure. This strong interaction occurs when the vortex is roughly within 1 inch of the wing in the vertical direction and the spanwise extent of the wing interaction region extends about 3 inch — incidentally, this region is also roughly the size of the vortex core diameter inferred from the PIV flow field measurements.

III.4. Effect of Vortex Age on Wing-Vortex Interactions

The tip vortex core grows slowly with age (downstream distance from the generating wing) and the effect of this on the interaction with the wing was explored by varying the separation distance between the wing and the VG. Measurements for three separation distances are shown in Fig. 18, where the change in wing lift coefficient is shown as a function of distance from the vortex interaction for several spanwise interaction

locations with a nominal vertical separation of 2 inch between the wing and the interacting vortex. In each case, the wing and VG incidence angles were $\alpha_w = 7°$ and $\alpha_{VG} = 8°$, respectively. The results show only a small effect of the interacting vortex age on the resulting wing lift variation. Between 3 ft and 6 ft separation the lift change surprisingly increased slightly in magnitude, as did the asymmetry between the positive lift peak outboard of the interaction and the negative lift peak inboard of the interaction. This is surprising because the core size of the interacting vortex would have grown as the separation distance increased. At the same time, the induced velocity from the vortex would also increase slightly because of the increased extent of the vortex upstream of the wing. This latter effect seems to be stronger than the effect of increased core size leading to slightly larger changes in wing loading due to vortex interaction for the larger separation distance. PIV flow field measurements (see later) show that the VG vortex changed very little in terms of its size/strength for these two separation distances. Between 6 ft and 9 ft, however the lift variation is almost identical. This is indicative of the much smaller core growth and a much smaller effect of the increased vortex extent upstream of the wing.

IV. Blockage and induced angle corrections

The vortex generator carriage was responsible for a noticeable blockage effect, caused no doubt by the fact that in spite of its seemingly small size, it is a bluff body — a problem exacerbated by its sitting in the tunnel floor boundary layer. A further indication of the presence of this blockage was that the required tunnel power was noticeably reduced with the removal of the carriage. Furthermore, the flow over the VG trolley also introduced an induced flow angle at the downstream wing. Present data must be corrected for this blockage and incidence angle effects. However, the lift deltas caused by vortex interactions are not a strong function of wing incidence — therefore, the behavior of the wing-vortex interaction is not significantly altered by this interference.

It was found that when the carriage (whether or not the vortex generator is mounted) is three feet upstream of the wing it is responsible for an effective upwash angle of about 0.5 degrees. The present paper reports data at this separation distance and the wing incidence angle was corrected for this induced angle, i.e., the stated wing incidence $\alpha_w = 7°$ comprises of 6.5°geometric angle of attack as measured by the inclinometer mounted at the wing root. This upwash decreases with upstream distance and almost disappears by a distance of 9 ft. This was verified by eventually acquiring data with the carriage removed.

Total lift force measured by the balance as a function of wing incidence angle is shown in Fig. 19 for several configurations including the VG trolley located at several locations upstream of the wing, measurements with the trolley removed and also measurements with the inner rails also removed. Large variations are seen between these different configurations. Two simple corrections are applied to these measurements. The first is a zero lift angle correction to account for the induced flow due to the VG trolley. The second is a simple blockage correction based on the frontal area of the faired carriage of 4.5 inch tall and 6 ft wide. This gives an area ration of ϵ=3.2% and the dynamic pressure is corrected to reflect the blockage effect as $q_c = q/\epsilon^2$. The results shown in Fig. 19 are shown again in Fig. 20. In this case, all the results nominally collapse to a single curve showing a linear lift coefficient versus angle of attack variation. This suggests that such a simple correction may be sufficient for comparing the measurements with computational results that cannot model these blockage effects.

V. Effect of flow fence near wing root

The tunnel wall had a moving slot to allow the wing to be attached to the balance mounted outside the tunnel walls on a moving trolley. The slot was small, extending only about an inch above the wing surface to accommodate wing incidence angle changes. Previous work by McAlister and Takahashi (1991) has shown that even such a small opening can drive flow along the wing span and can significantly alter the wing lift not only near the root but also over the entire wing span. To minimize such flow effects a circular flow fence was mounted on the wing at 2.5 inch from the tunnel wall. Initial design used an 18 inch diameter circular fence. However, wing lift obtained from surface pressure measurements showed some loss of lift near the wing root even with this flow fence. This led to a design of a much larger flow fence of 48 inch diameter. The spanwise wing lift coefficient distributions measured with these two fences along with that without any flow fence are shown in Fig. 21. In the absence of the fence, there is a large decrease in sectional lift coefficient near the wing root at the 8 inch span station. As the size of the fence increases, the inboard section lift recovers to a

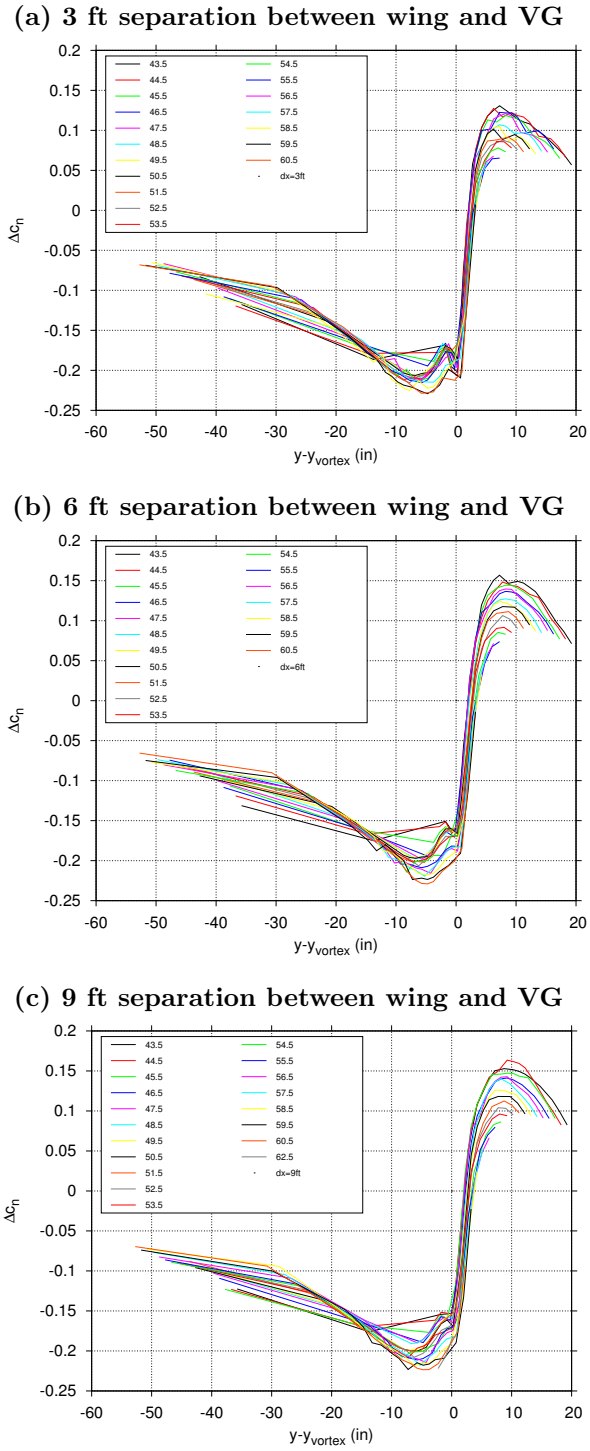

Figure 18. Effect of vortex age (separation distance between the wing and the VG) on the spanwise wing lift variation for several vortex interaction locations, $\alpha_w = 7°$, $\alpha_{VG} = 8°$, vertical separation 2 inch, $q = 70$ psf.

level nearly equal to that at the 30 inch station close to the mid-span. It is interesting to note that for both the small fence and no fence cases, the wing lift decreases over entire span, although the decrease is much smaller away from the root.

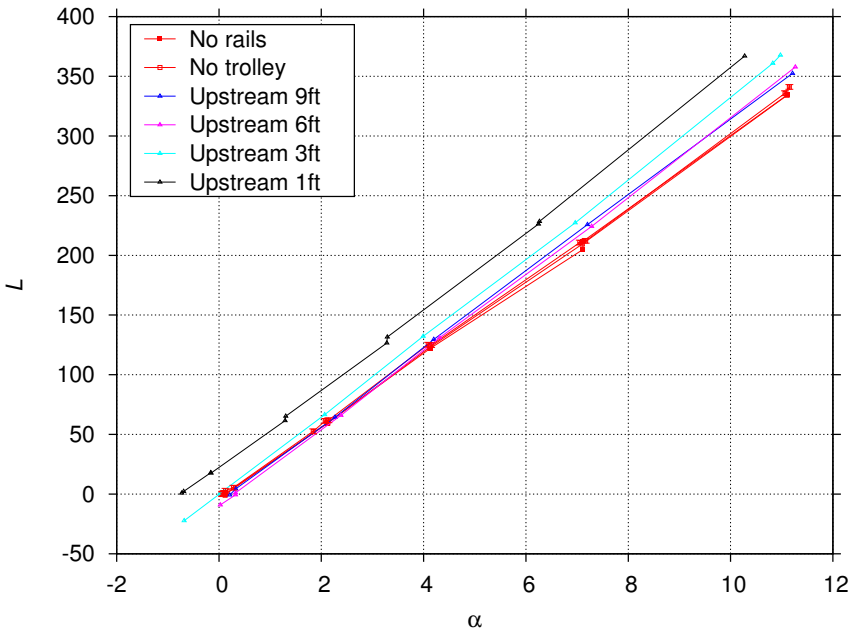

Figure 19. Wing lift variation as a function of wing incidence angle in several configurations with and without the VG trolley assembly upstream of the wing.

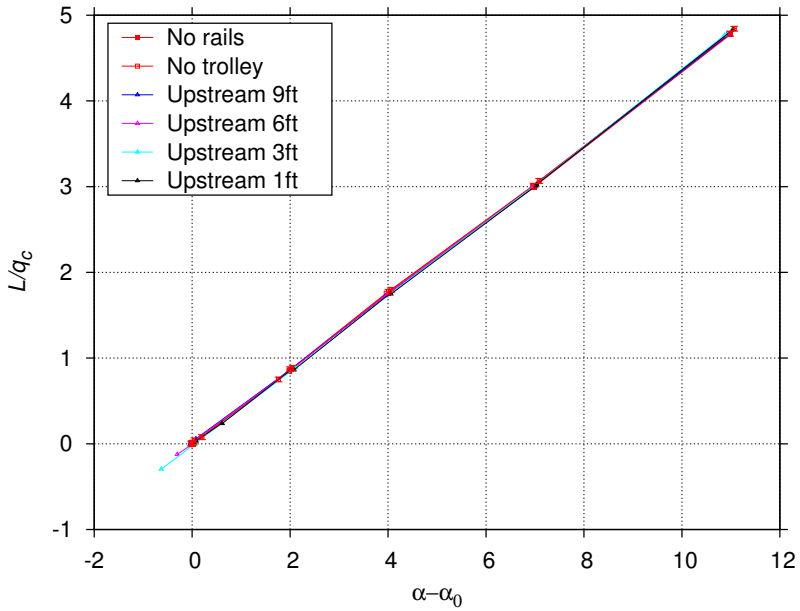

Figure 20. Corrected wing lift coefficient variation as a function of corrected wing incidence angle in several configurations with and without the VG trolley assembly upstream of the wing.

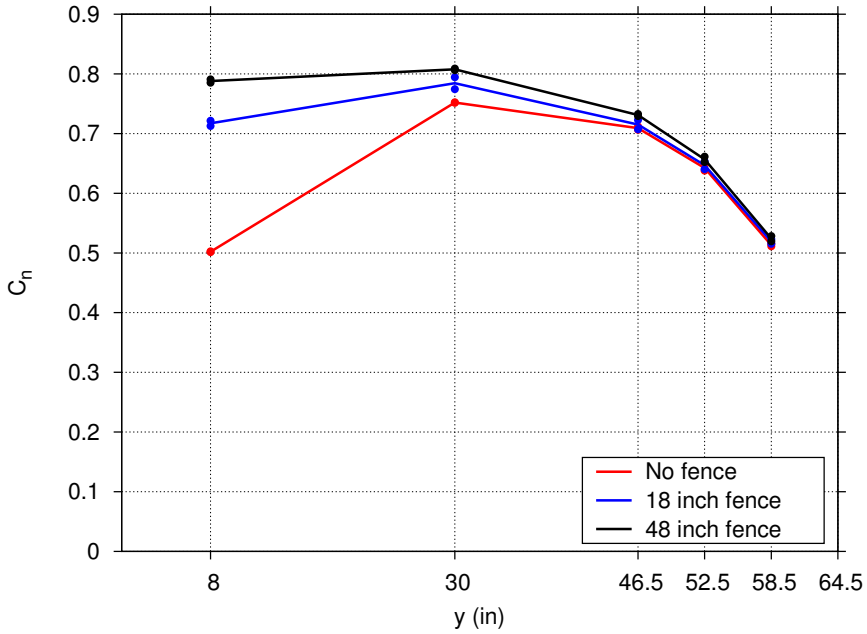

Figure 21. Effect of flow fence on wing lift distribution, $\alpha_w = 8°$, $q = 70$ psf.

VI. PIV flow field measurements & discussion

Baseline velocity field measurements were performed in the wake of the isolated wing and isolated VG (without a downstream wing), to isolated the effects of vortex interaction on the wing/VG wake. Velocity field data were acquired for four spanwise wing-vortex interaction locations, in 0.5 chord intervals from the wing tip, at $y = 64.5$, 58.5, 52.5, and 46.5-in. with a 0, 2, and 4-in. vertical separation between the wing and the interacting VG vortex. The measurements were also obtained at several downstream distances, ranging from 1-in. to almost 11-ft behind the wing trailing edge (TE). The methodology used to extract the vortex properties is described, followed by how these wake properties are affected by the wing-vortex interaction.

VI.1. Extracting vortex properties from the velocity field

Several methods have been developed to extract the vortex properties such as its size, strength and position/orientation from measured velocity field. The simplest methods involve first identifying the vortex center (based on maximum vorticity, minimum velocity, or some such criterion) and then using a small sub-set of data around this center to determine the vortex properties. One common method is to fit a vortex model to the measurements along one or several lines passing through the vortex center. The methodology used here, presented in Bhagwat and Ramasamy (2012), is a generalization of this line-fit method to include the entire measurement plane and all the wake elements contained therein. In this case a least-squared fit of a model (including all vortical wake elements) is made to the planar measured velocity field to simultaneously extract both the vortex center and other vortex and wake sheet properties. While this methodology was successfully applied to several rotor tip vortex measurements, one limitation of this methodology is the a priori assumption of a vortex core model. The present results are based on the laminar core model by Lamb (1932). The implications of this assumption are discussed later on in the section on vortex modeling considerations.

The methodology had to be extended to include a model for the inner wake sheet along with the tip vortex. Without including a sheet model, the extracted properties of the tip vortex were also incorrect. An example of this is shown in Fig. 22, in the form of vorticity contours in the isolated wing wake at 6-in. behind the wing TE. The inner wake sheet is clearly visible. The inset shows the detail near the tip vortex, and the estimated vortex center and core are also shown for increasing measurement window size. As the window size increased, more and more of the wake sheet was included in the flow field resulting in the extracted vortex center location drifting towards the vortex sheet, and away from the local maxima in vorticity. The extracted vortex core radius also increased as did the total vortex circulation. This inconsistency stems from the fact that a single vortex cannot possibly model the wake flow field, and reaffirms that some model of the trailed vorticity sheet is necessary.

VI.2. Modeling inner wake sheet as a series of vortices

The measured PIV flow field of the isolated wing wake is shown in Fig. 23 in the form of vorticity contours. The inner wake sheet is visible in the form of vorticity extending inboard from the tip vortex. The tip vortex is modeled as a Lamb vortex, with its size, strength and location being determined by the least-squared fit. The inner wake sheet modeled as a series of vortices is also shown along with the data boundary of the PIV measurements. The sheet model comprised of several discrete vortices with a small core (0.25-in., or roughly four times as small as the tip vortex core). The vortices comprising the sheet were constrained to be separated by one core radius from each other, while their circulation strengths were determined from the measurements using the least-squared fit.

Based on potential flow theory, the total (vortex and sheet combined) trailed circulation should equal the bound circulation at the wing root, which, in this case, is also the maximum bound circulation. However, using this simple model, the combined strengths of the tip vortex and the inner sheet were found to be only 72% of the wing root circulation, as inferred from the pressure measurements. One possible reason for this may be that the inner wake sheet extends further inboard than what is modeled here, although it is not readily apparent in the vorticity contours in Fig. 23.

The same flow field is shown again in Fig. 24 using lower vorticity contour levels. This reveals a rather "noisy" flow field with low level vorticity surrounding the tip vortex and the inner wake sheet. The sheet is, indeed, seen to extend further inboard, and is now modeled with a longer series of vortices shown in the figure as white circles. Closed loop contour integrals were performed over several integration boxes shown

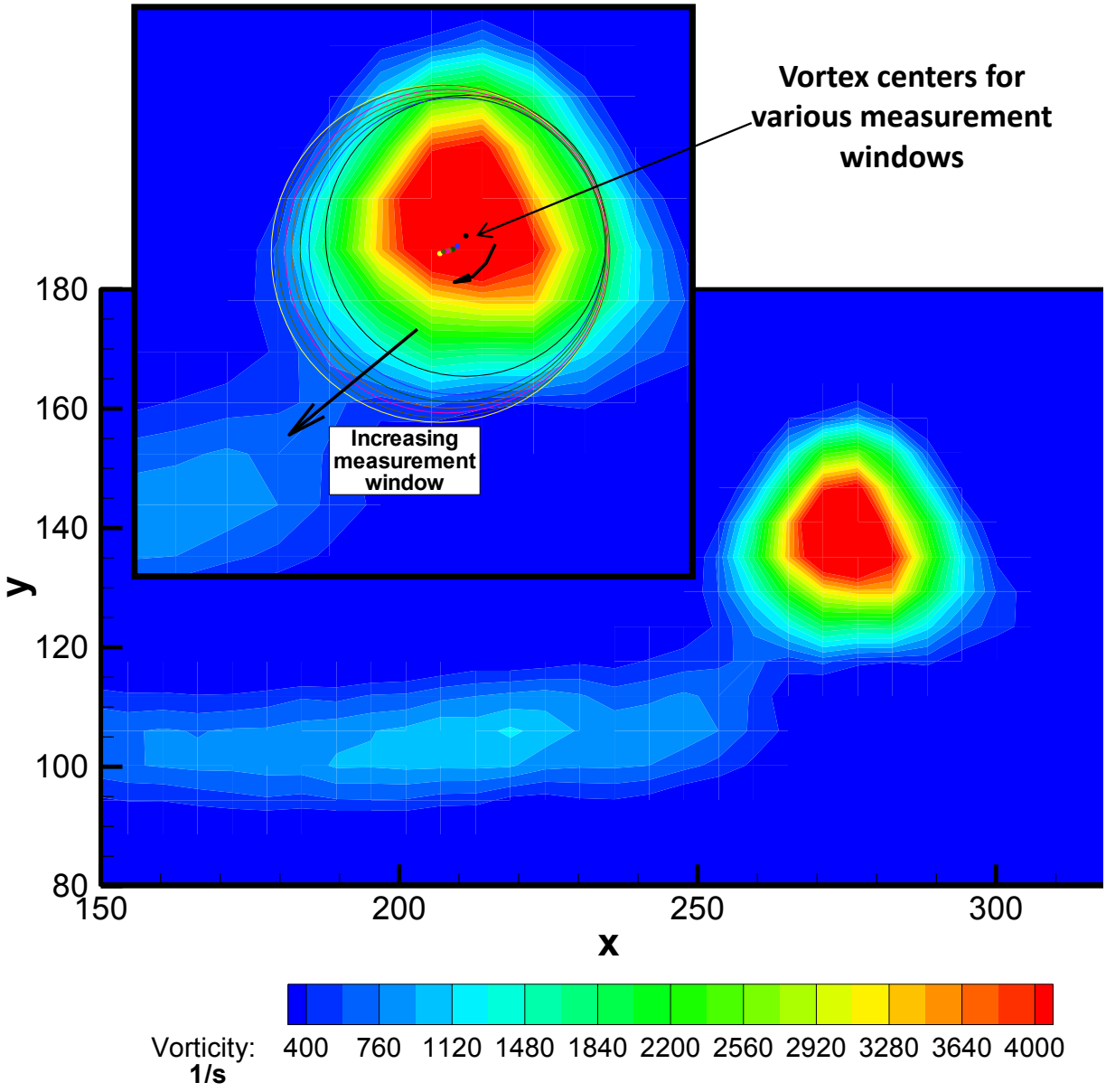

Figure 22. Variation in the extracted vortex center and core size with increasing measurement window

in red to estimate the circulation contained in the tip vortex and the vortex sheet. These simple estimates show that the tip vortex box contained 44% of the wing root circulation, whereas the sheet boxes contained 41%. However, a closed loop integral over the entire measured flow field, shown in blue, yielded only only 59% of the wing root circulation. This suggests that the small "noise" in the measured flow field is certainly not negligible, and contains a large amount of vorticity; this can potentially affect our analysis to extract the tip vortex properties.

Part of the reason for this noise in the measurements is the fact that the freestream velocity is much larger than the in-plane wake induced velocities. Small variations in the freestream velocity due to tunnel unsteadiness can translate into relatively larger unsteadiness in the in-plane velocities. The in-plane velocity measurements away from the vortex and the inner sheet were found to have standard deviation larger than the mean values. To eliminate the noise due to high unsteadiness, only a small fraction of the measured velocity data within the red boxes in Fig. 24 was used in the least-squared fit to extract the tip vortex and

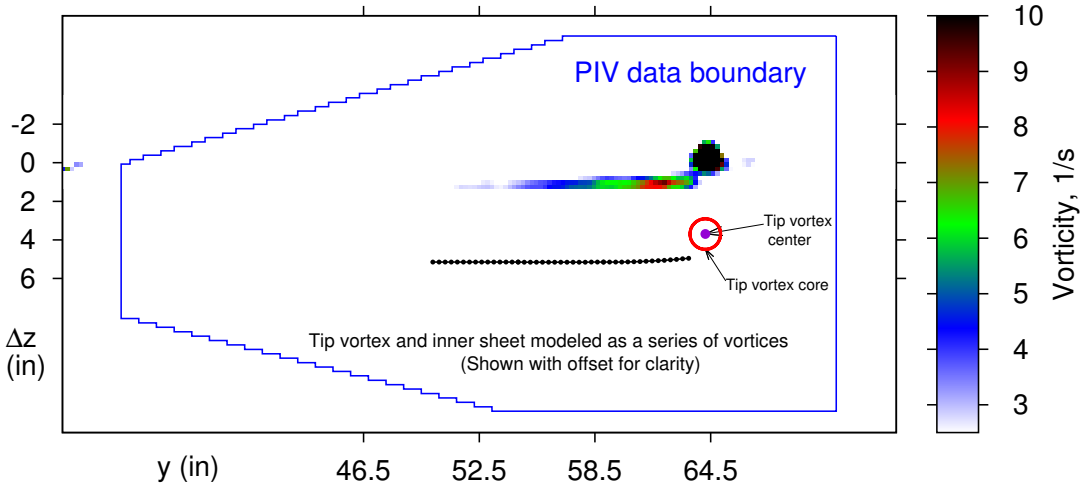

Figure 23. Example flowfield with tip vortex and an inner wake sheet modeled as a series of vortices

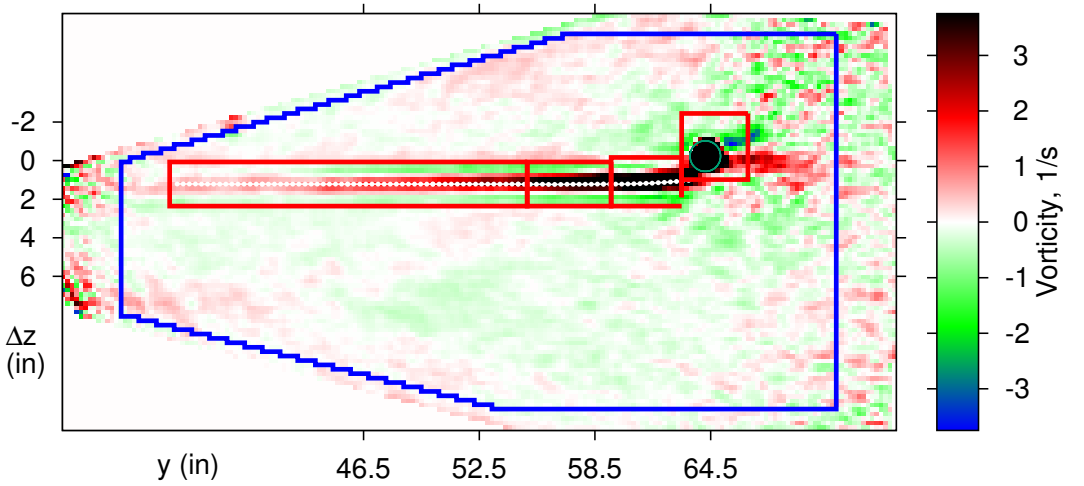

Figure 24. Boxes around tip vortex and inner wake sheet to avoid the "noise" in the data seen as low level vorticity

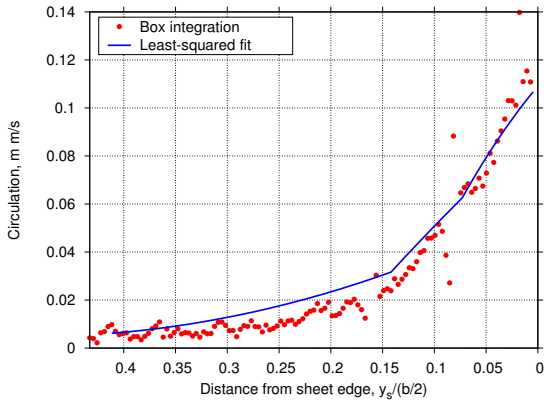

Figure 25. Sheet circulation from the least-squared fit and closed-loop integral.

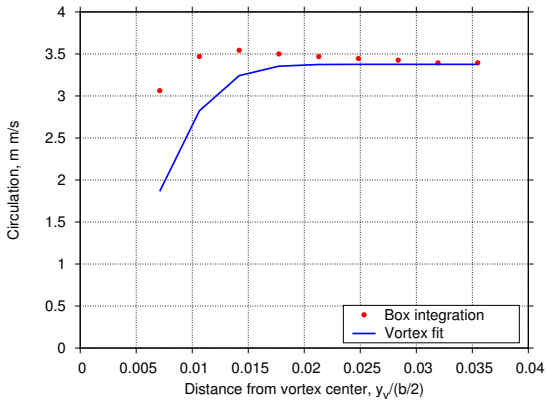

Figure 26. Vortex circulation from the least-squared fit and integration

wake sheet properties.

To verify the ability of this model to capture the sheet circulation distribution, closed loop integration

was performed around the wake sheet using small boxes to estimate the variation of the sheet circulation strength. The distribution of circulation along the inner wake sheet from closed-loop integrals is shown in Fig. 25 along with that extracted by the least-squared fit. The good agreement between the two results confirms that the least-squared fit is able to capture the circulation distribution along the sheet. The sheet strength is highest near the sheet edge closest to the tip vortex, and decreases gradually inboard. This is consistent with the potential flow theory result that the trailed circulation varies as the gradient of the bound circulation. Results of closed loop integration around the tip vortex with increasing box sizes starting from the vortex center are shown in Fig. 26. In this case, the agreement with the least-squared fit is not good in terms of the distribution. Part of the reason for this discrepancy is that the rectangular boxes are not centered on the vortex. However, the asymptotic value, that is the total circulation of the tip vortex, is captured correctly using the least-squared fit.

VI.3. Isolated wing wake evolution

The tip vortex and sheet circulation for the isolated wing extracted using the least-squared fit method including a vortex sheet model is shown in Fig. 27. The wing root circulation value inferred from the surface pressure measurements using the Kutta-Joukowski theorem is also shown. The earliest measurement is at 1-in. behind the wing TE. At this location over 95% of the wing root circulation can be found in the trailed wake, with about 40% in the tip vortex and 55% in the inner wake sheet. Over a distance of one chord behind the TE, the tip vortex circulation increases slowly; this is indicative of the tip vortex roll-up process. The sheet circulation decreases over this distance, and it appears that at least during this initial roll-up some of the sheet circulation rolls up into the tip vortex core. However, at distances larger than two chords behind the TE, the tip vortex circulation remains nominally constant; that is, the tip vortex roll-up process appears to be complete. On the other hand, the vortex sheet circulation continues to decrease rather drastically. At the largest downstream measurement location of about 11-ft, it is evident that not all of the circulation initially present in the inner wake sheet rolls up into the tip vortex core.

The core radius and peak swirl velocity of the isolated wing tip vortex are shown in Fig. 28 as a function of downstream distance. The early increase in both the peak velocity and core radius reflects the vortex roll-up, where the vortex circulation is also increasing. After the initial roll-up, the peak swirl velocity decreases and the core radius increases following the classic viscous core growth given by

$$r_c = \sqrt{r_{c_0}^2 + 4\alpha\,(\delta\nu)\,t} \tag{1}$$

where r_{c_0} is the initial vortex core radius at its origin at the wing, $\alpha = 1.25643$ is a constant, ν is the viscosity coefficient. The effective eddy viscosity coefficient, δ, modifies the laminar core growth to accommodate a larger growth rate. For the present case, a small eddy viscosity coefficient ($\delta = 1.88$) is expected given the relatively low vortex Reynolds number in the present test.

To better understand the decreasing inner vortex sheet strength, the circulation distribution along the sheet is shown in Fig. 29 for increasing downstream distances. Close to the wing TE, the sheet circulation is larger near the sheet edge closest to the tip as shown earlier in Fig. 25. With increasing downstream distance this high circulation decreases rapidly and the sheet circulation distribution becomes nominally constant at the largest downstream distance measured. While some of the sheet circulation close to the tip vortex does indeed roll-up into the tip vortex, some circulation appears to be distributed in a region outside the extent of the tip vortex. It is not yet clear whether this circulation is lost to dissipation or larger-scale diffusion or whether it eventually rolls-up into the tip vortex, though possibly outside of the core. It does suggest, however, that while the vortex evolution is primarily dominated by nearly-laminar diffusion, the sheet may be additionally affected by dissipation processes.

VI.4. Wing-vortex interaction

Preliminary calculations for the wing loading, both with and without an interacting vortex, were performed using classical Prandtl's lifting line analysis. Example results are shown in Fig. 30 for three cases: (a) a fixed-wing at 12° incidence from McAlister and Takahashi (1991) measured in the same tunnel, (b) the present wing at 7° incidence and (c) the VG at 4° incidence. Overall, the agreement with measurements is good with some small expected discrepancies near the wing tip region.

The lifting line calculations for the VG were used to prescribe an interacting vortex with the total vortex strength corresponding to the VG root circulation, which is the total strength of the vortex according to

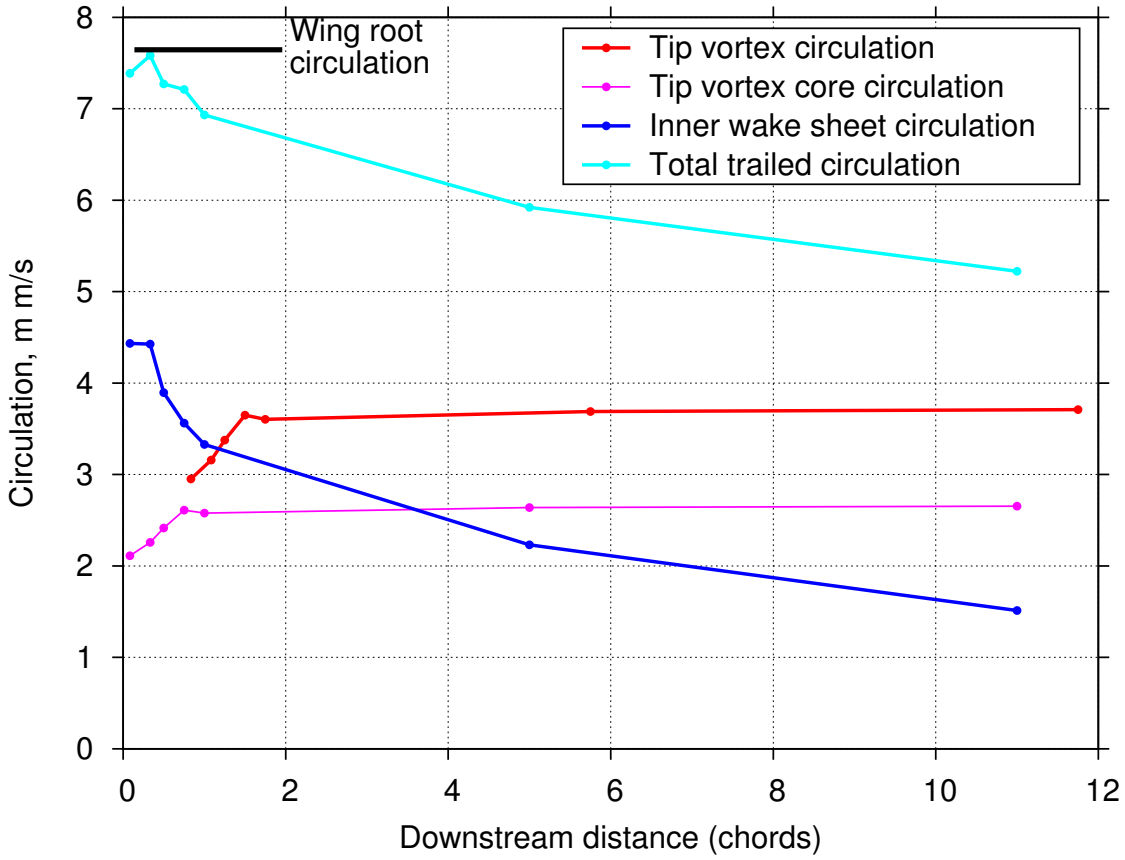

Figure 27. Tip vortex and sheet circulation as a function of downstream distance behind the wing TE

Betz (1933) roll-up theory. A laminar viscous core model based on the Lamb (1932) solution, was used with a 1.5-in. core radius (i.e., the radial location of maximum of tangential velocity). The Lamb core model dictates that the core circulation is about 70% of the total vortex circulation. The lifting line predictions are shown along with wing loading measurements in Fig. 31, with the interacting vortex located one-and-a-half chord inboard of the wing tip and nominally zero vertical separation. The predictions show the same trend as the measurements, with vortex-induced loading peaks showing the signature of the interacting vortex, but significantly over-predicting the vortex-induced lift loading. The overall reduction in the wing lift due to the vortex-induced velocity, as evident from the reduced loading near the wing root, is captured well. This suggests that while the total vortex circulation being modeled is reasonably accurate, the actual circulation contained in the core is far less than that in the assumed Lamb model. The flow field measurements are analyzed with a view to gain insights into the structure of wing tip vortices, particularly the circulation distribution within and outside the vortex core.

The close interaction of the vortex alters the wing loading as shown in Fig. 31, with a peak in bound circulation near the wing tip outboard of the interacting vortex. The trailed circulation in the wake is related to the bound circulation as

$$\Gamma_{\text{trailed}} = -\int \frac{\mathrm{d}\Gamma_{\text{bound}}}{\mathrm{d}y}\mathrm{d}y \tag{2}$$

The lifting line calculations shown earlier are shown again in Fig. 32. The trailed circulation is also shown in the form of equi-spaced discrete vortices, with the size of the circles representing the circulation magnitude as given by the above equation. For the isolated wing, the trailed circulation is heavily concentrated near the tip with only a small amount of circulation contained in the inboard wake sheet.

The vortex interaction modifies the loading such that the wing root circulation is lower corresponding to an overall reduction in wing lift due to the vortex interaction. The trailed circulation near the wing tip increases because of the loading peak outboard of the interacting vortex. The inner wake sheet strength may be smaller than that for the isolated wing case, by virtue of the larger tip vortex circulation and the

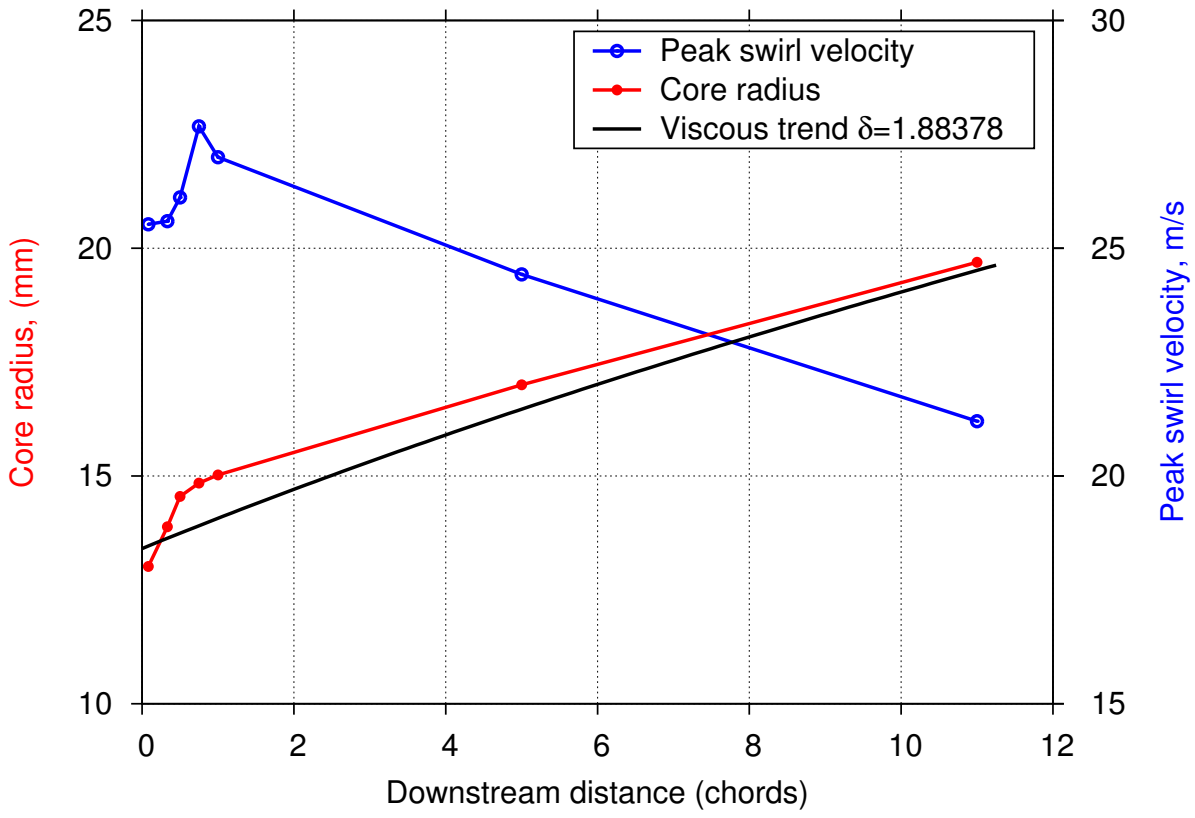

Figure 28. Tip vortex core radius and velocity as a function of downstream distance behind the wing TE

smaller wing root circulation. The wake sheet also has a region of relatively large negative trailed circulation (opposite in sign to the tip vortex) just inboard of the interacting vortex. This is shown by red circles, with the radius again representing the magnitude of circulation. The least-squared fit model can capture these negative portions of the inner wake sheet.

An example of the measured flow field is shown in Fig. 33 for the wing-vortex interaction occurring at y = 46.5-in.with a vertical separation of 2-in. measured at 4-in. behind the wing TE. The data for such wing-vortex interaction cases were analyzed in a similar manner, with the VG trailed wake being modeled using a tip vortex and an inner wake sheet. The VG was vertically mounted and, therefore, its wake sheet appears nearly vertical in the figure.

Figure 34(a) shows the wing inner sheet circulation distribution obtained using closed loop box integrals as well as the least-squared fit for three spanwise vortex interactions 2-in. below the wing, at a measurement location 4-in. behind the wing TE. Results are shown for vortex interactions at three spanwise locations at y = 58.5-in. (0.5 chords from the tip), y = 52.5-in. (1 chord from the tip) and y = 46.5-in. (1.5 chords from the tip), from top to bottom. The effect of interacting vortex is seen in the form negative circulation in the wake sheet near the vortex location. In the case of the most inboard interaction, the least-squared fit did not accurately represent the negative circulation region. However, at the other two locations the agreement between the two is reasonable.

The effect of vertical separation between the interacting vortex and the wing on the inner sheet circulation distribution is shown in Fig. 34(b), for the interaction at y = 46.5-in., with nominally 4-in., 2-in. and 0-in. vertical separation, from top to bottom, at 4-in. behind the wing TE. The nominally direct hit interaction, with a 0-in. separation, shows a large positive circulation near the interacting vortex. This is because the closed loop integration includes some of the circulation of the interacting vortex along with that of the wing inner wake sheet.

Recall from Fig. 32 that the vortex interaction decreases the root circulation, because of a net reduction in wing lift resulting from the downwash induced by the interacting vortex. This suggests that if the tip

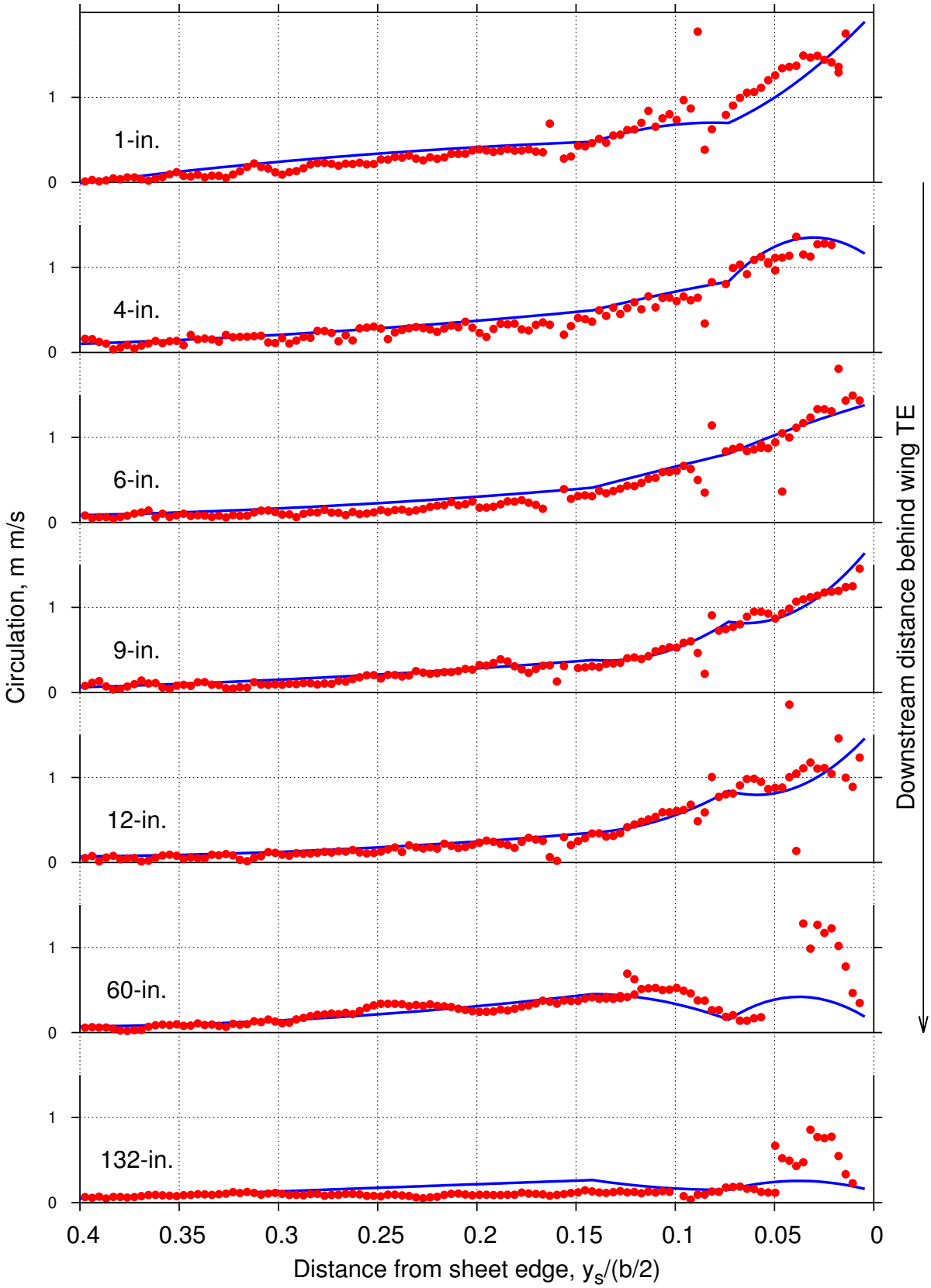

Figure 29. Inner wake sheet circulation distribution for isolated wing wake with increasing downstream distance behind the wing TE

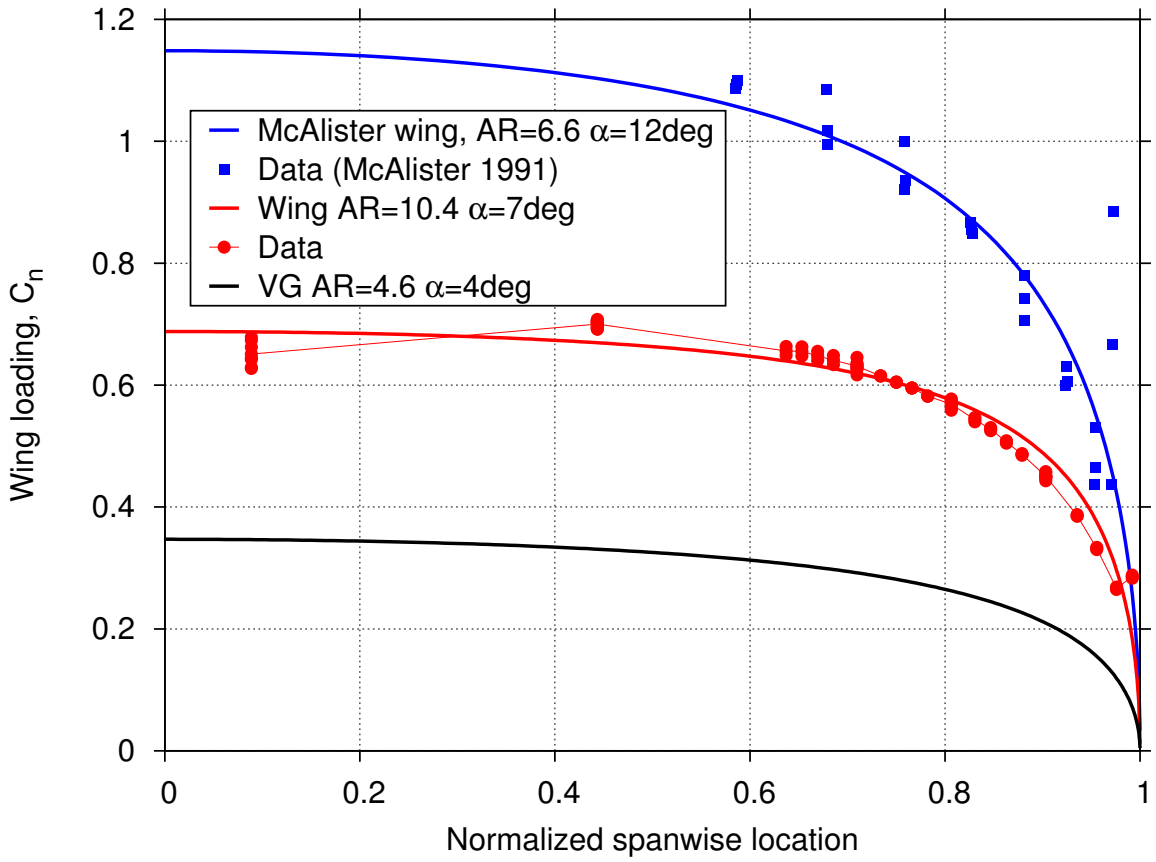

Figure 30. Lifting line predictions of isolated semi-span wings of different aspect ratios: (a) AR=6.6 from McAlister and Takahashi (1991), (b) main wing, AR=10, and, (c) VG AR=4.6

vortex strength remained unchanged the net trailed circulation in the sheet would be lower than the isolated wing case. However, the trailed circulation in the tip region increases from the interaction because of the larger local loading peak. The total sheet strength (including both positive and negative portions) would then be even lower than that for the isolated wing. If the interacting vortex is close enough to the wing, then it may entrain the negative circulation portion of the wing inner sheet thereby causing a reduction in the circulation strength of the interacting vortex. Such reduction in the interacting vortex circulation was first reported by Wittmer and Devenport (1999) and Wittmer et al (1999). As the negative circulation portion of the wake sheet entrains into the interacting vortex, the net circulation strength of the wing inner sheet would increase because of the residual positive circulation induced by the vortex interaction. These effects are apparent in the vortex properties extracted from the measured velocity field for the wing-vortex interactions.

VI.5. Effect of wing-vortex interaction

Figures 35 and 36 show the trailed wake properties as a function of downstream distance, for the vortex interaction at $y = 58.5$-in., that is 0.5 chords inboard of the wing tip, with a vertical separation of 2-in. between the wing and the interacting vortex. The wing tip vortex circulation is larger than that for an isolated wing, while the inner wake sheet circulation and the total trailed circulation in the wake are smaller. This is consistent the wing loading changes induced by the vortex interaction, schematically shown in Fig. 32. The strength of the interacting vortex decreased slightly following the interaction, indicating that some portion of the wing inner sheet with negative circulation was entrained into the interacting vortex.

It was interesting to note that the wing tip vortex core radius and growth trend was not affected by the interaction, except over a small distance just behind the wing TE. This suggests that the interaction affects the initial roll-up of the tip vortex core along with its circulation strength, but not the overall core growth. An unexpected observation (Fig. 36a) was that the interacting VG tip vortex core was found to be nearly

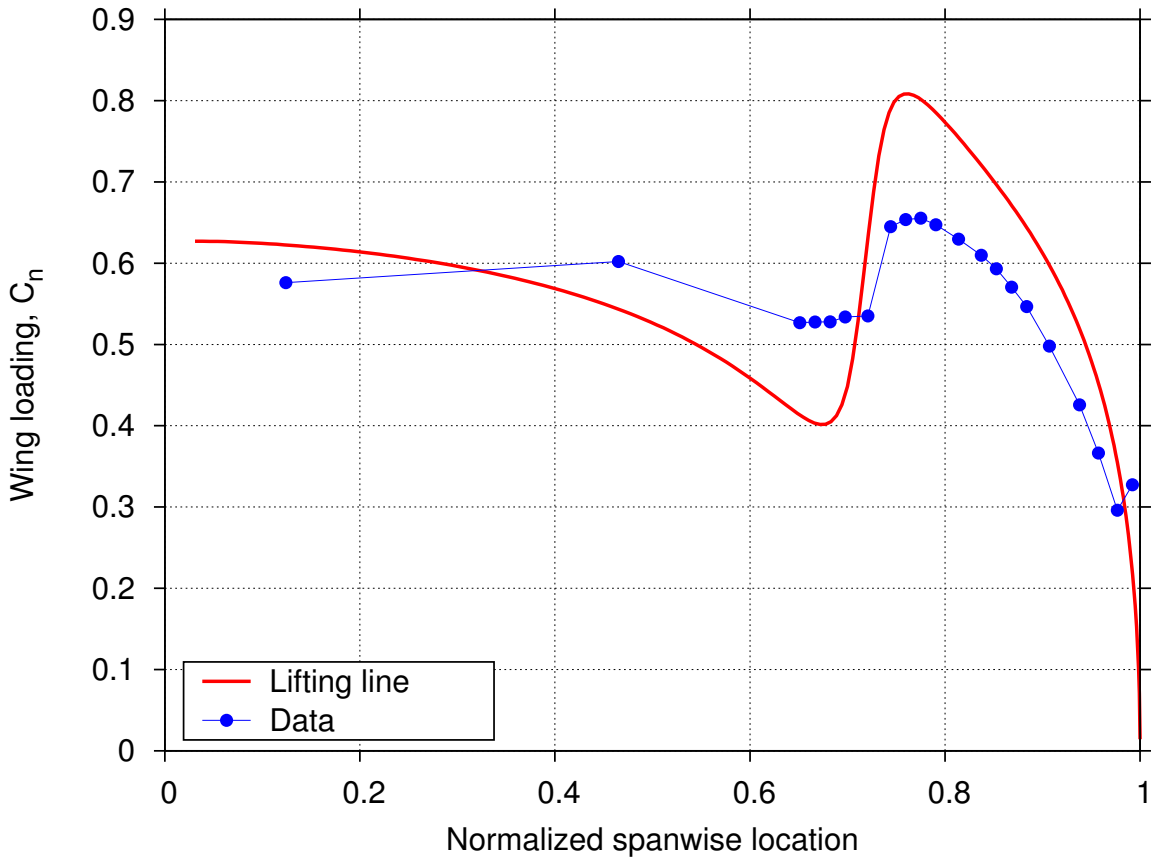

Figure 31. Lifting line predictions for wing-vortex interaction at 1.5 chord inboard from the tip. Wing 7°, VG 4°.

25% smaller as compared to the isolated VG case. The peak swirl velocities of both the tip vortices were found to increase due to the interaction. For the wing tip vortex this increased velocity was due to the larger circulation, whereas for the VG tip vortex the increased velocity was due to the smaller vortex core.

Wake properties extracted from flow field measurements for several other wing-vortex interaction locations are shown. For direct interactions (with nominally zero separation distance), the interacting VG tip vortex circulation was found to decrease progressively as the interaction moved radially inboard from the wing tip, suggesting entrainment of the wing inner wake sheet into the interacting vortex. Following such direct interactions, the two vortices were seen to merge at the largest downstream distance measured.

VI.6. Vortex interaction effects on wing wake evolution

The variation of trailed wake properties with an interacting vortex is shown for several vortex interaction locations. When the vortex interaction occurs with a zero vertical separation between the wing and the vortex (i.e., $\Delta z = 0$-in.) the VG vortex merges into the wing tip vortex at the largest downstream distance measured. This is shown pictorially in Fig. 37 as a series of measured velocity fields at several distances downstream of the wing trailing edge when the interacting vortex is located nominally 0.5 chord inboard of the wing tip.

Figure 38 shows the variation of trailed wake properties for vortex interaction at the 58.5-in. spanwise location, that is 0.5 chords inboard of the wing tip, for three vertical separation distances. When the vortex directly hits the wing, the wing tip vortex circulation is larger than that for the isolated wing. The inner wake sheet circulation is a little lower, while the total trailed circulation in the wing wake (sum of tip vortex and the inner wake sheet) is slightly higher. This suggests that portions of the inner wake sheet with negative circulation entrains into the interacting VG tip vortex. The significantly lower strength of the VG vortex (as compared to that without an interacting wing) confirms this entrainment.

The wing tip vortex core size and growth remains unchanged due to these interactions in spite of an

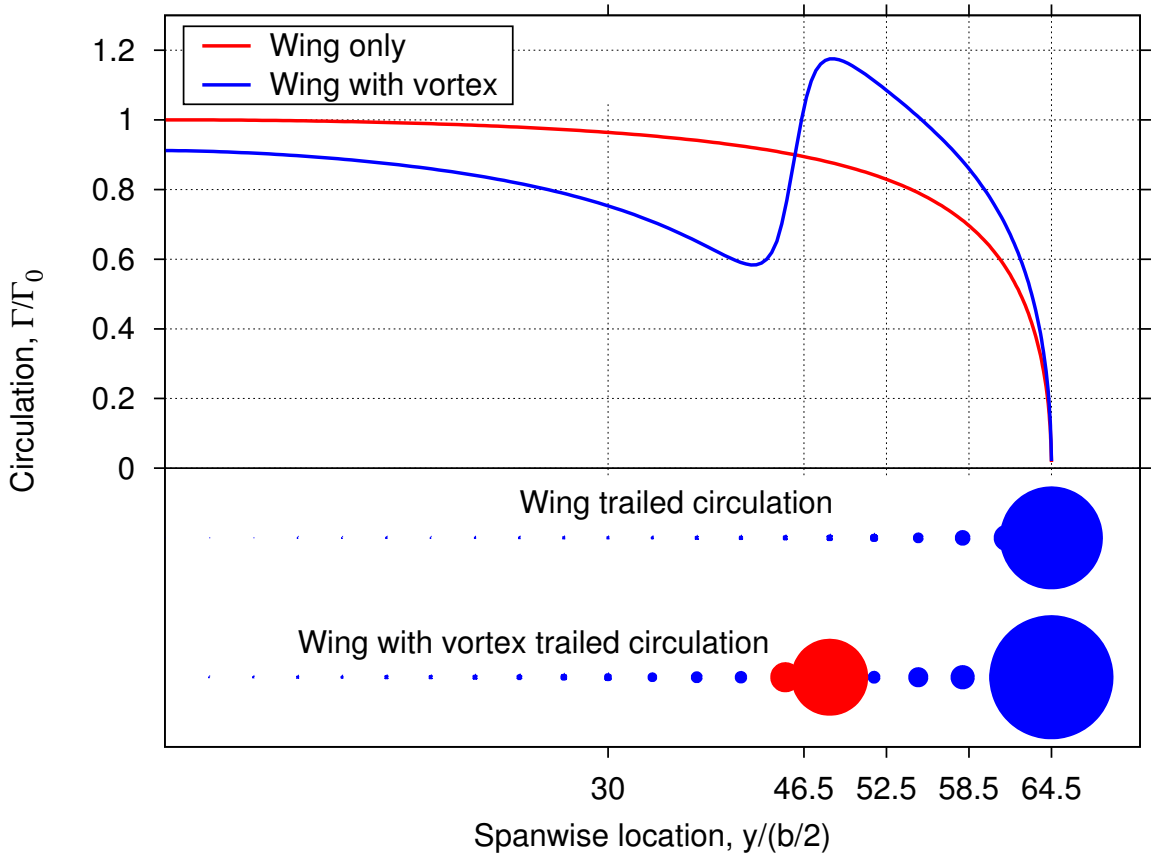

Figure 32. Computed wing loading and trailed circulation distribution for a typical wing-vortex interaction, $y = 46.5$-in., $\Delta z = 0$-in.

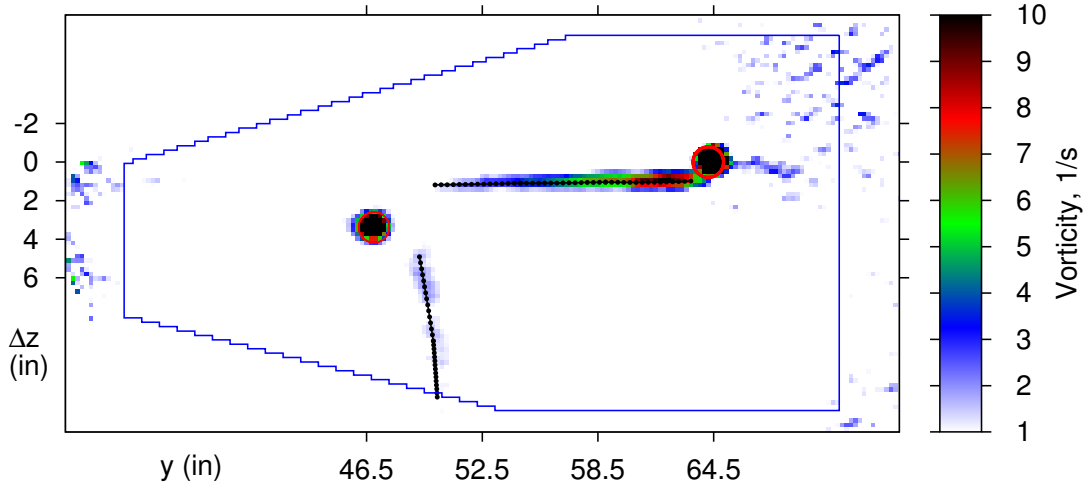

Figure 33. Example flowfield for wing-vortex interaction with the inner wake sheet(s) modeled as a series of vortices

increased circulation strength; a larger vortex core is seen only at the largest downstream distance, probably because of the merging with the VG vortex. The wing tip vortex peak swirl velocity is higher than the isolated wing case owing to the increased circulation strength. The VG tip vortex core size is smaller compared to that for the isolated VG. A similar decrease in interacting vortex core size was reported by Wittmer et al (1999) downstream of the wing interaction. The VG tip vortex peak swirl velocity is smaller owing to the smaller circulation resulting from the interaction with the wing. in-direct For close interactions, with 2-in.

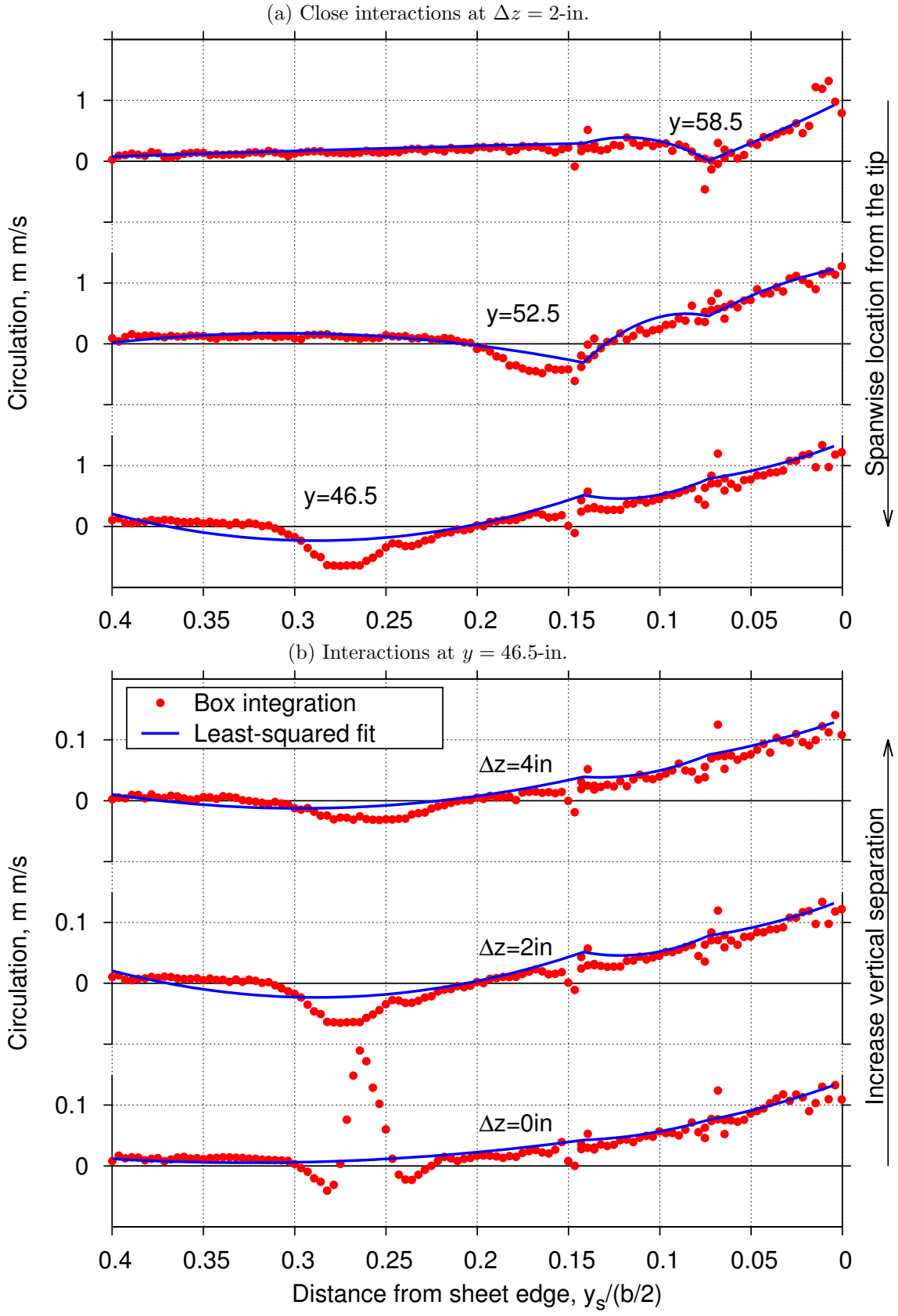

Figure 34. Inner sheet circulation distribution for wing-vortex interactions extracted using the least-squared fit.

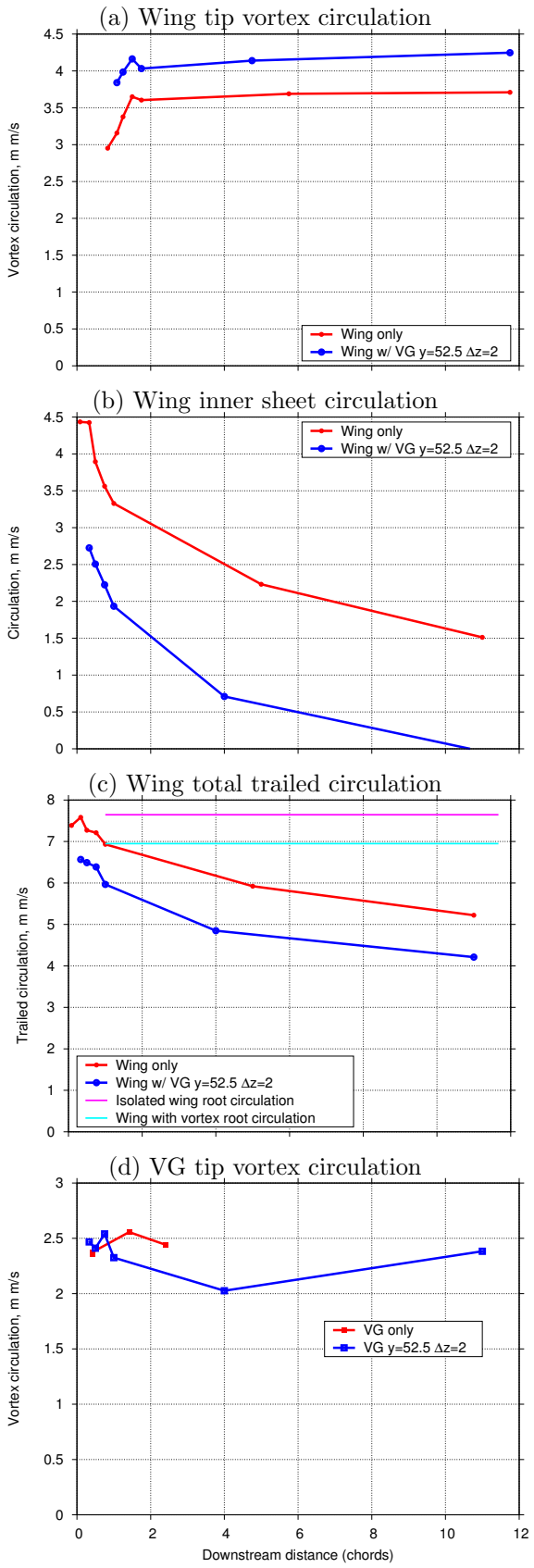

Figure 35. Trailed wake circulation for wing-vortex interaction at $y = 52.5$-in. with $\Delta z = 2$-in.

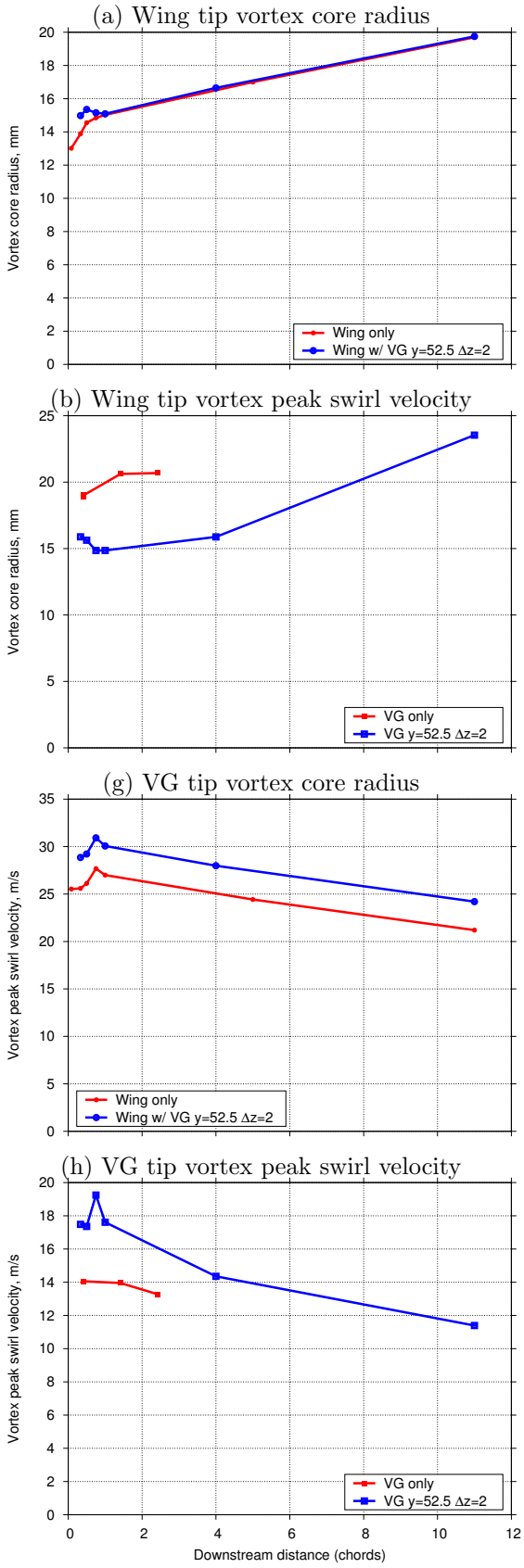

Figure 36. Vortex core size and peak swirl velocity for wing-vortex interaction at $y = 52.5$-in. with $\Delta z = 2$-in.

and 4-in. vertical separation between the wing and the interacting vortex, the effects of interaction are more gradual. The wing vortex circulation, the sheet circulation and the total circulation show a small decrease as compared to the isolated wing; the VG vortex circulation is nominally the same as compared to the isolated VG vortex. The wing tip vortex and the VG vortex circulations appear to slowly decrease with downstream distance suggesting increased dissipation due to the interaction. The core radius and the peak swirl velocity of the wing tip vortex are also nominally the same. The VG vortex core radius is slightly smaller compared to the isolated VG case, and the peak swirl velocity is correspondingly larger. The effect of these close interactions is seen mainly as a slightly lower wing inner sheet circulation, and correspondingly lower total trailed circulation in the wing wake.

At 52.5-in. spanwise location (1 chord inboard of the tip), shown in Fig. 39, the vortex interaction shows similar effects with some variations. In this case, the wing tip vortex circulation is larger than the isolated wing in all three vertical separation cases. The wing inner sheet circulation is smaller for close interactions. However, with a direct interaction it is nominally the same as the isolated wing case. The total trailed circulation in the wing wake also shows a similar behavior. This again suggests that for the direct interaction the negative circulation in the wing inner sheet entrains into the VG tip vortex, and is confirmed by the significantly lower circulation for the VG tip vortex. The direct interaction results in the eventual merging of the wing and VG tip vortices. The wing tip vortex core radius is almost the same as that for the isolated wing, and the peak swirl velocity shows an increase owing to the increased circulation strength. The VG tip vortex core radius is lower than the isolated VG cases. The peak swirl velocity for the VG vortex is correspondingly higher, except for the direct interaction case where it is lower due to the lower circulation strength.

Figure 40 shows the vortex interaction at 46.5-in. spanwise location (1.5 chords inboard of the tip), where effects very similar to those at the 52.5-in. are observed. In this case, the VG vortex circulation is significantly lower as compared to the isolated VG. This is, perhaps, because the inboard interaction induces a much stronger negative trailed circulation region in the wing wake. The VG vortex core radius is also smaller and, again, at the largest downstream distance measured, the VG vortex merges into the wing tip vortex.

A unique wing-vortex interaction case was studied where the VG vortex directly hits the wing tip. This is shown in Fig. 41. In this case, the two vortices merged with each other immediately downstream of the wing TE. The tip vortex circulation as well as the inner wake sheet circulation was found to be higher than the isolated wing case. The core radius was noticeably larger because of the vortex merging process, and, in turn, the peak swirl velocity was smaller than the isolated wing tip vortex.

Figure 42 shows the variation in vortex properties for the direct interactions at four spanwise locations together to better visualize the trends. The wing tip vortex circulation is seen to increase gradually as the interacting vortex moves inboard from the tip, while the VG tip vortex circulation correspondingly decreases. Note that for the direct interaction at the wing tip, the VG tip vortex merged into the wing tip vortex, and is not seen in the measured velocity field. The inner wake sheet circulation is larger in this case. However, as the interacting vortex moves inboard the wing sheet circulation is smaller than that for the isolated wing. The VG tip vortex core is smaller due to the interaction with the wing in all cases. The wing tip vortex core is much larger when the interacting vortex hits directly at the wing tip, whereas it is nominally the same as the isolated wing case for the inboard interactions. The wing tip vortex peak swirl velocity increases as the interacting vortex moves inboard, owing to the increased circulation strength. The peak swirl velocity is smaller for a direct hit at the wing tip, because the core radius is much larger due to vortex merging. The VG tip vortex peak swirl velocity decreases as the interaction moves inboard, following the trend in the circulation strength of the VG tip vortex.

The observations on changes in vortex properties due to wing-vortex interaction relative to isolated wing or isolated VG vortex properties are summarized. The wing tip vortex circulation increases due to the interaction. For direct interactions the increase is nominally constant with varying spanwise interaction locations, whereas for close interactions the wing tip vortex circulation increases progressively as the interaction moves inboard from the wing tip. Similarly, the VG tip vortex circulation shows a progressively larger decrease in circulation with increasing distance inboard of the wing tip for direct interactions. For close interactions, on the other hand, the VG vortex circulation shows a small decrease independent of the spanwise interaction location. The wing inner sheet circulation shows a small decrease in all cases, except for the direct interaction at the wing tip where the wing tip vortex circulation also shows considerable increase.

It was interesting to note that the wing tip vortex core radius and growth trend are not altered significantly

by the interaction, except in cases where the VG tip vortex merges with the wing tip vortex. In such cases the tip vortex core is almost 30% larger. Note that with inboard direct interactions the two vortices merged somewhere between the two largest downstream measurement locations (5-ft and 11-ft behind the wing TE) as shown in Fig. 37. For the direct interaction at the tip, the two vortices merged immediately following the interaction, even before the first measurement location at 1-in. behind the wing trailing edge. The wing tip vortex peak swirl velocity showed a similar behavior, with increased peak velocity due to increased circulation as a result of the interaction. When the two vortices merge, the peak swirl velocity is lower owing to the larger core radius.

The VG tip vortex core radius showed a small decrease due to the interaction with the wing in all cases. This may be related to the reduction in the VG tip vortex circulation due to possible entrainment of with portions of the wing inner wake sheet with negative circulation. For close interactions, the peak swirl velocity of the VG tip vortex increases corresponding to the decreased core radius. For direct interactions, the peak swirl velocity behavior follows the VG tip vortex circulation with a progressive decrease observed as the interaction moved inboard from the wing tip.

VI.7. Betz roll-up theory

The common approach to model the tip vortices is to use a laminar core model like the Lamb (1932) model with the strength of the tip vortex given by the Betz roll-up theory. The circulation distribution of the Lamb vortex is such that 70% circulation is contained in the vortex core, with the remaining spread over a region roughly of the order of two core radii. Other vortex models such as the Iversen (1976) model include turbulence effects, where the core circulation is only 40% with the remainder spread across roughly four core radii around the vortex center. However, the circulation distribution in the tip vortex must also be driven by the loading distribution on the generating wing. The Betz theory relates the vortex circulation distribution in the Trefftz plane to the loading distribution on the generating wing. The vortex structure is postulated as the trailed vorticity sheet rolling up into a tight spiral. The individual spiral layers of this tightly rolled-up sheet may be indistinguishable, but together they define the circulation distribution in the tip vortex. This circulation distribution is related to the wing loading as given by, see, e.g., Rossow (1997),

$$\Gamma_v(r) = \Gamma_w(y) \qquad r = -\frac{1}{\Gamma_w(y)} \int_{-b/2}^{y} \Gamma_w(x)\mathrm{d}x \tag{3}$$

where Γ_v is the wake vortex circulation, r the vortex radial coordinate, Γ_w the wing bound circulation and y the wing spanwise coordinate which is 0 at the root and $b/2$ at the tip.

The Betz roll-up theory has a profound implication that, even in potential flow, the vortex circulation is distributed over a large region that is of the order of wing semi-span. The effect of viscosity would remove the singularity at the vortex center, but is unlikely to decrease the extent of the vortex. The viscous vortex core is much smaller compared to the wing span, typically of the order of 5% chord, and only a small fraction of the total circulation may be contained in the vortex core. This is a key difference between lift-generated vortices and isolated line or point vortices, such as the Lamb vortex.

Rossow (1975) presented an "inverse-Betz" method where the circulation distribution in the trailed wake is used to estimate the loading on the generating wing. This is essentially an inverse of the relation given above in Eq. 3 and was shown to give fairly accurate representation of the spanwise loading distribution on the generating wing, even on swept wings with flaps deflected, when turbulent effects are not large. The loading on the wing is given by

$$\Gamma_w(y) = \Gamma_v(r) \qquad \frac{b}{2} - y = r + \int_0^r \frac{x}{\Gamma_v(x)} \frac{\mathrm{d}\Gamma_v(x)}{\mathrm{d}x}\mathrm{d}x \tag{4}$$

The wing tip vortex and inner wake sheet circulation distribution extracted using the least-squared fit was used to reconstruct the wing loading using this inverse Betz method. Figure 43 shows the wing loading reconstructed from the trailed wake circulation at 4-in. behind the wing TE. The agreement with the loading estimated from wake circulation and that measured using surface pressures is surprisingly good. The inboard variation of the wing loading reflects the sheet circulation strength shown earlier in Fig. 25. The spike in pressure measurements near the wing tip, which is conceivably due to the tip vortex rolling up and convecting over the upper surface of the wing, is not captured by the inverse Betz theory.

The same process of estimating the wing loading using Eq. 4 was repeated for measurements at several distances downstream of the wing. These results in Fig. 44 show that as the downstream distance, not all the wing loading can be correctly reconstructed from the wake measurements. Part of this discrepancy may be rooted in the larger apparent dissipation of the inner wake sheet circulation, as extracted by the least-squared fit method. However, it is more likely rooted in the assumed Lamb vortex core model inherent to the least-squared fit used for extracting the vortex properties.A vortex model that includes an inner core vortex and a larger outer vortex representing the tightly rolled-up vorticity sheet (or part of the vortex sheet) may be necessary to to properly relate the trailed circulation in the wake at large downstream distance to the wing loading. Such a vortex model is described in the next section.

The inverse Betz theory was also applied to the wake flow field measurements for the wing-vortex interaction cases. Example results for a close interaction (vortex passing 2-in. below the wing) are shown in Fig. 45 for three spanwise vortex interaction locations. For the most outboard interaction at 58.5-in. the effect of vortex interaction is seen only as a small local peak in the wing loading. The inverse Betz theory applied to the trailed wake circulation gives a very similar result. At the next two inboard interaction locations, the local peak loading is much larger. The inverse Betz theory correctly captures the loading peak, but the distribution inboard of the interacting vortex does not agree as well with the wing loading reconstructed from pressure measurements. The over-estimation of the wing loading from the wake circulation is likely due to entrainment of some negative circulation in the inner wake sheet into the interacting vortex.

VII. Vortex modeling considerations

The Betz roll-up theory implies that the structure of lift-generated vortices may be quite different from that of a point vortex. To illustrate this further, the circulation and the swirl velocity distribution for a point vortex are shown in Fig. 46, along with that for a wing tip vortex as given by the Betz roll-up (Eq. 3). The potential flow solution for a point vortex is that the velocity is inversely proportional to the distance from the vortex center. All the vorticity is contained at the vortex center (a singularity), and the circulation is constant everywhere. The effect of viscosity eliminates the singularity at the vortex center. The core radius corresponds to the location of the peak swirl velocity. Outside the core, the swirl velocity quickly asymptotes to the potential vortex solution. This also results in a gradual circulation variation in the vortex, with close to full circulation seen only outside two core radii.

The laminar Lamb core has about 70% circulation in the vortex core. The turbulent solution by Iversen (1976) has about 40% circulation in the vortex core. The Betz roll-up is a potential flow solution, and there is no vortex core. In this case r_c is simply assumed to be 1.5% of the wing semi-span and used to normalize the distance for comparison. The wing tip vortex solution is obtained by applying the Betz roll-up equation (Eq. 3 to the lifting-line solution for wing loading shown earlier in Fig. 30. In this case, even for the potential flow solution, only about 40% circulation is contained in the vortex core. While this is similar to the turbulent vortex, the circulation distribution outside the vortex core is very different. The laminar vortex reaches almost the full circulation at about two core radii, the turbulent vortex reaches it a little more slowly over about four core radii. The lift generated vortex, however, reaches the full circulation at a much larger distance of several core radii, of the order of the wing semi-span. It may be necessary to include this large region of relatively low circulation (or, equivalently, vorticity) surrounding the vortex in the models for lift-generated tip vortices.

To further highlight the differences between a point vortex and a lift-generated vortex, Fig. 47 shows the same results for vortex circulation and velocity normalized with the respective core values. Note that in this case each of the vortices have a different circulation in the far field, i.e., different strengths. The potential point vortex has unit circulation, whereas the laminar vortex has approximately 1.4 times, and the turbulent vortex has strength 2.5 times the core circulation. For the present fixed-wing case, the Betz roll-up solution suggests that the final circulation is about 2.4 times the core circulation similar to a turbulent vortex, but that final value is reached at a significantly large distance of the order of the wing semi-span.

The swirl velocities for both the laminar and the turbulent vortices are larger than the potential point vortex as shown by the asymptotic values at large distances. Notice that unlike Fig. 46, the velocity for the laminar or turbulent vortices does not approach the potential point vortex because the vortex circulation for the point vortex is smaller. The Betz roll-up gives a results that is closer to the laminar vortex velocity just outside the vortex core but slowly approaches the turbulent vortex solution at larger distances. This is reminiscent of the transitional vortex model proposed by Ramasamy and Leishman (2007), where the

vortex induced velocity smoothly transitions from the laminar to the turbulent solution based on the vortex Reynolds number and Richardson's number. While similar, it must again be stressed that the behavior seen in Fig. 47 is not indicative of viscous effects but reflects the loading distribution on the generating wing, i.e., a potential flow effect.

The differences between a point vortex and a lift-generated vortex may be better quantified using the classical definitions of the inner radius (core radius) and the outer radius (vortex radius). The core radius is the radial location where the swirl velocity is maximum, whereas the vortex radius is the location where the circulation reaches 99% of the total value (to allow for cases where the vorticity extends to infinity), see, e.g., Saffman (1992), Section 2.1. Engineering models of viscous vortices often focus only on the core radius without explicitly considering the vortex radius. For the laminar Lamb vortex, the vortex radius is roughly two times the core radius, whereas for a turbulent vortex the vortex radius is about four times the core radius. For lift generated vortices, however, the vortex radius may be much larger than the core radius. The vortex radius is of the order of the distance of the maximum wing bound circulation location from the wing tip, whereas the core radius is much smaller and of the order of a fraction of the chord. In the present case, the core radius is roughly 1-in. whereas the vortex radius based on the Betz roll-up is of the order of 50-in..

Figure 48(a) and (b) show vorticity contours for an isolated Lamb vortex and a typical lift-generated vortex based on Betz roll-up for the isolated wing, with an assumed Lamb-like core. The core model is superimposed on the vortex circulation given by the Betz roll-up using the Lamb circulation variation for a vortex of unit strength. The traditional vortex core, i.e., the location of maximum swirl velocity is shown using a red circle. The vorticity contours, especially close to the vortex core, are very similar for the two vortices. The key difference, one that is not immediately obvious, is that in case of the lift-generated vortex only 40% of the circulation is contained in the core whereas the remaining 60% is distributed over a large region. While the Lamb vortex reaches 99% circulation at $r \approx 2$, the lift-generated vortex reaches 99% circulation only at $r \approx 50$.

Recall that the present least-squared fit approach uses the Lamb vortex model. Given the similarity between the vorticity contours, it is conceivable that the this model when applied to a lift-generated vortex does not correctly capture the total vortex strength. Typically the core radius and peak swirl velocity is correctly captured by the least-squared fit. However, the total circulation value is then dictated by the core circulation (1.4 times the core circulation, as seen in Fig. 47). The actual variation of circulation well outside the core is not adequately represented by the assumed model and is not captured by the least-squared fit. This, perhaps, explains the large apparent dissipation of the inner wake sheet circulation observed in the present measurements as seen in Fig. 27. It is conceivable that as the vortex rolls-up some of the inner sheet gets pulled into the vortex core as seen by the initial growth of the vortex core circulation. At larger downstream distances, it is conceivable that the inner wake sheet tightly wraps around the vortex but remains in the region well outside the vortex core. This would increase the total vortex circulation but not the core circulation. The present model does not account for this effect and possibly misses the increasing vortex strength.

A model for the vortex that combines an inner core vortex and a larger outer vortex can be visualized using the wake flow field measurements for the isolated wing wake. Figure 49 shows the flow field at several downstream distances behind the wing TE in the form of vorticity contours. At distance closest to the wing (within one chord downstream), only the inner core vortex and the wake sheet (presently modeled as a series of closely spaced vortices) are clearly visible in the flow field. As the downstream distance increases, a region of low vorticity can be seen surrounding the inner core vortex. At the two largest downstream distances, the inner core vortex appears to grow very slowly reminiscent of the laminar core growth. The outer vortex region, however, appears to grow with parts of the inboard wake sheet feeding into it. This suggests that to properly account for all the trailed wake circulation this outer vortex must be included in the model along with the inner core vortex and a vortex sheet. This outer vortex region represents the tightly-wound wake spirals of the Betz roll-up theory. The strength and size of the outer vortex grows with increasing downstream distance as more and more of the wake sheet is entrained into it. At sufficiently large downstream distance, the entire inboard wake sheet would roll-up into this outer vortex, its circulation approaching the Betz result. Future work will focus on this two-stage vortex model consisting of an inner core vortex (which may be laminar or turbulent) and an outer vortex, to properly account for all the trailed circulation in the wake. At small downstream distances close to the wing, the outer vortex is relatively small and the present single-core model is sufficient to account for the trailed circulation in the wake. However,

the outer vortex appears large at the two largest downstream measurement locations. The inclusion of the outer vortex in the model would likely alter the perceived vortex strength for these measurements.

VIII. Concluding remarks

This report describes an experiment to simulate the flow field blade tip region of a hovering rotor using a fixed-wing wind tunnel model with an upstream vortex generator. The ultimate intent was to obtain data of adequate quality to validate computational simulations as well as to improve engineering models of hover performance through a better understanding of the underlying flow phenomena. The present test has successfully demonstrated the ability to measure detailed load and wake behavior for a large range of wing-vortex interactions. Some key observations are summarized here.

VIII.1. Pressure measurements — summary & conclusions

Surface pressure measurements were made to reconstruct spanwise loading on the wing with an interacting vortex. Some key observations are summarized here.

- Surface pressure measurement on the wing is of sufficient quality to reveal the essential elements of the flow. It clearly reveals the fairly subtle flow phenomena such as leading edge bubbles and weak trailing edge separations characteristic of the NACA0015 section. Comparisons between the lift coefficient obtained from balance loads and that integrated from wing surface pressures is within 2%, which is an indicator of good data quality.

- The wing lift integrated from the surface pressure measurements clearly reveal two distinct levels of wing-vortex interaction: a weak interaction where the vortex induced flow is essentially seen as an angle of attack change over the wing span, and a strong interaction where close proximity of the vortex core to the wing causes large changes in pressure on the wing surface. Such wing-vortex-core interactions result in unusually sharp local spikes in wing lift, and can be expected to have performance and acoustic implications.

- The sectional lift decreased at wing stations inboard of the interacting vortex (due to increased downwash) while at wing stations outboard of the interacting vortex the lift increased due to a decreased downwash from the vortex induced velocity. This lift change was highly asymmetric with the increase in lift being much less than the decrease in lift. The asymmetry slowly decreased as the spanwise vortex interaction location moved inboard and away from the wing tip, suggesting that at least a part of this asymmetry was due to the three-dimensional tip effects. The decrease in lift inboard of the interacting vortex, however, appears to be independent of the vortex interaction location.

- Similar asymmetry in the wing loading profile was also observed when the strength of the interacting vortex was nominally doubled with the incremental wing loading being directly proportional to the vortex strength. Preliminary PIV flow field data confirmed that the VG and the wing vortex flow fields were nominally axisymmetric, and did not show the gross asymmetry in wing lift with an interacting vortex.

VIII.2. Flow field measurements — summary & conclusions

The flow field measurements were analyzed to better understand how the trailed circulation in the wake relates to the loading on the generating wing. Some key observations from the flow field measurements are summarized here.

- The wake behind the isolated wing was characterized by a tip vortex and an inboard wake sheet which slowly deformed, and appeared to wrap around the tip vortex. The vortex and sheet properties were extracted from the measurements using a least-squared fit to an assumed model comprised of a discrete tip vortex and a series of vortices representing the wake sheet. The uncertainties in the measurements allowed only a small portion of the data close to the tip vortex and the sheet to be used for analysis.

- The vortex core circulation increased as it trailed about a chord length behind the wing trailing edge indicative of the vortex roll-up process, and remained nominally constant after that. The inner wake

circulation appears to decrease with downstream distance, and it is not clear whether this is due to larger dissipation or whether the circulation remains in the tip vortex in a large region outside of the core. The total trailed wake circulation decreased in a similar manner because the tip vortex circulation remained nominally constant. The total trailed circulation was close to the wing root circulation, as suggested by the Betz roll-up, only at short distances up to a chord downstream of the wing edge.

- The wing-vortex interaction altered the circulation strengths of both the wing tip vortex and the inner wake sheet. The wing tip vortex strength increased due to the interaction, partly due to a local peak in the wing bound circulation outboard of the interacting vortex. For close interactions, the wing tip vortex circulation progressively increased as the interacting vortex moved inboard from the wing tip.

- The interaction with a passing vortex induced a local negative circulation region in the inner wake sheet trailing from the wing, corresponding to the large gradient in circulation inboard of the peak loading due to vortex interaction. Some of this negative circulation region was entrained into the interacting vortex. As a result, both the wing inner sheet circulation and the interacting vortex circulation showed a decrease due to the interaction.

- For direct interactions, the interacting vortex showed a significant decrease in its circulation strength indicative of entrainment of with the negative vorticity in the wing inner wake sheet induced by the vortex interaction. For the direct interaction at the wing tip, the interacting vortex immediately merged into the wing tip vortex. For direct interactions at inboard spanwise locations, the two vortices merged over downstream distances between five and eleven chords behind the wing trailing edge. The merging resulted in a diffused vortex core with almost 30% larger core radius and a correspondingly smaller peak swirl velocity.

- The methodology used to extract the vortex properties is based on a vortex model that represents a point vortex, where most of the circulation is contained in a small region surrounding the vortex core. The Betz roll-up theory suggests that for lift-generated vortices, the circulation may be spread across a much larger region, of the order of wing semi-span or several core radii. It appears that the present methodology must be extended to include such a model of the tip vortex, with a larger outer vortex radius not dictated by the inner core radius, to correctly extract the total vortex strength from the measurements. Given the limitation of the vortex model based on a point vortex, the present methodology correctly captures the core radius, velocity and circulation of the measured vortices, but does not correctly capture the asymptotic, total circulation in the vortex. It appears necessary to properly measure and resolve the velocity field in a large region surrounding the vortex core to accurately infer the complete vortex roll-up process.

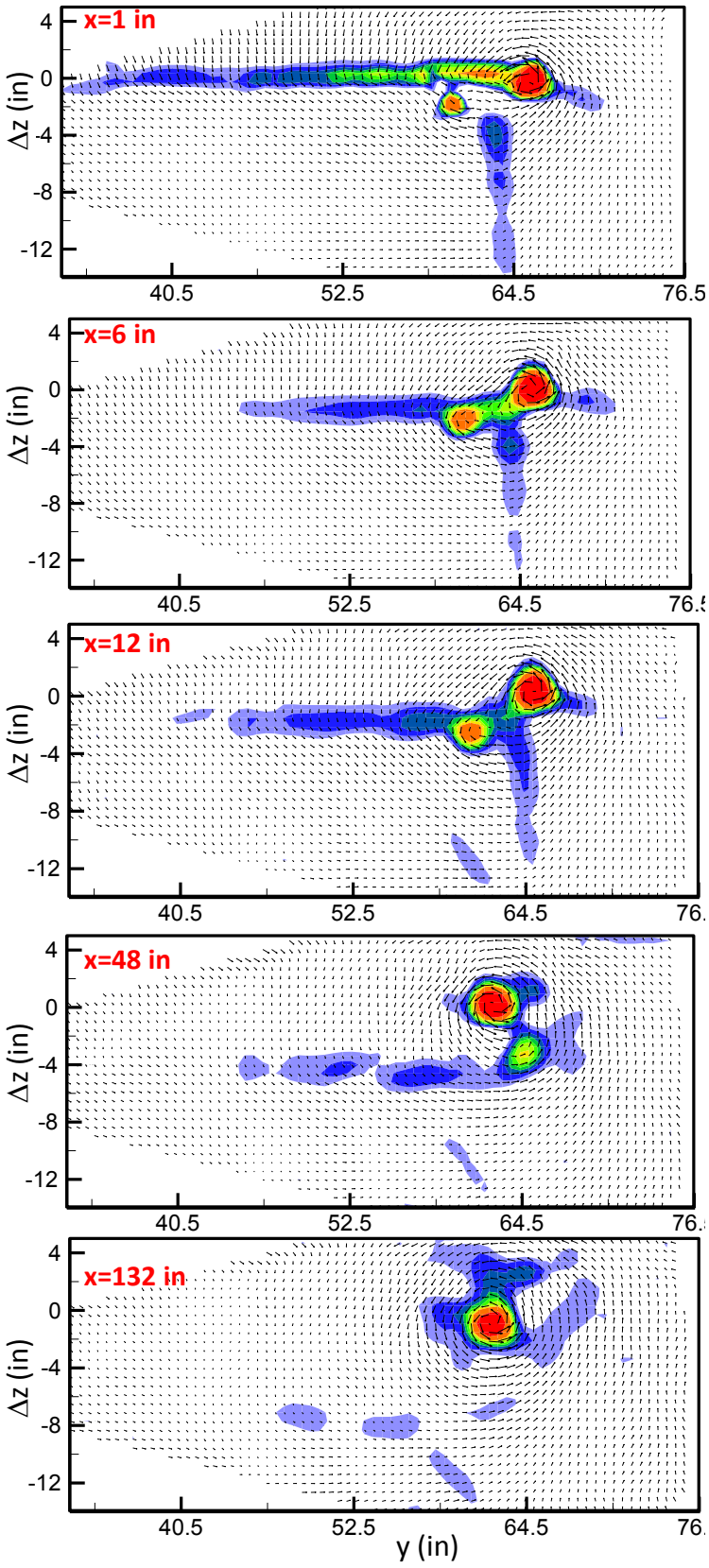

Figure 37. Evolution of interacting wing and VG tip vortices at several downstream distances with nominally zero vertical separation between the vortex and the wing at 0.5 chord inboard of the tip

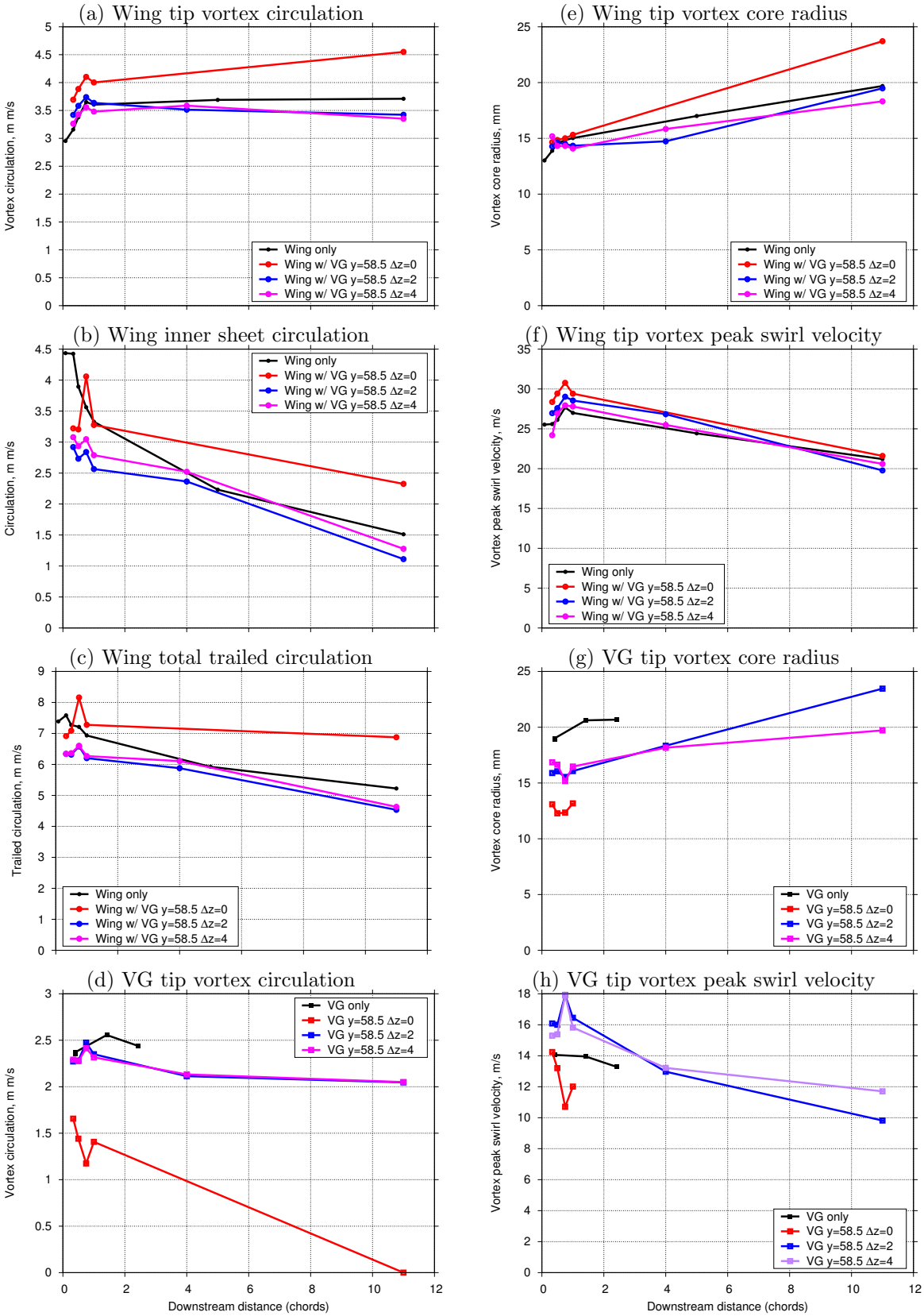

Figure 38. Wing-vortex interaction at $y = 58.5$-in. (0.5 chords inboard of tip)

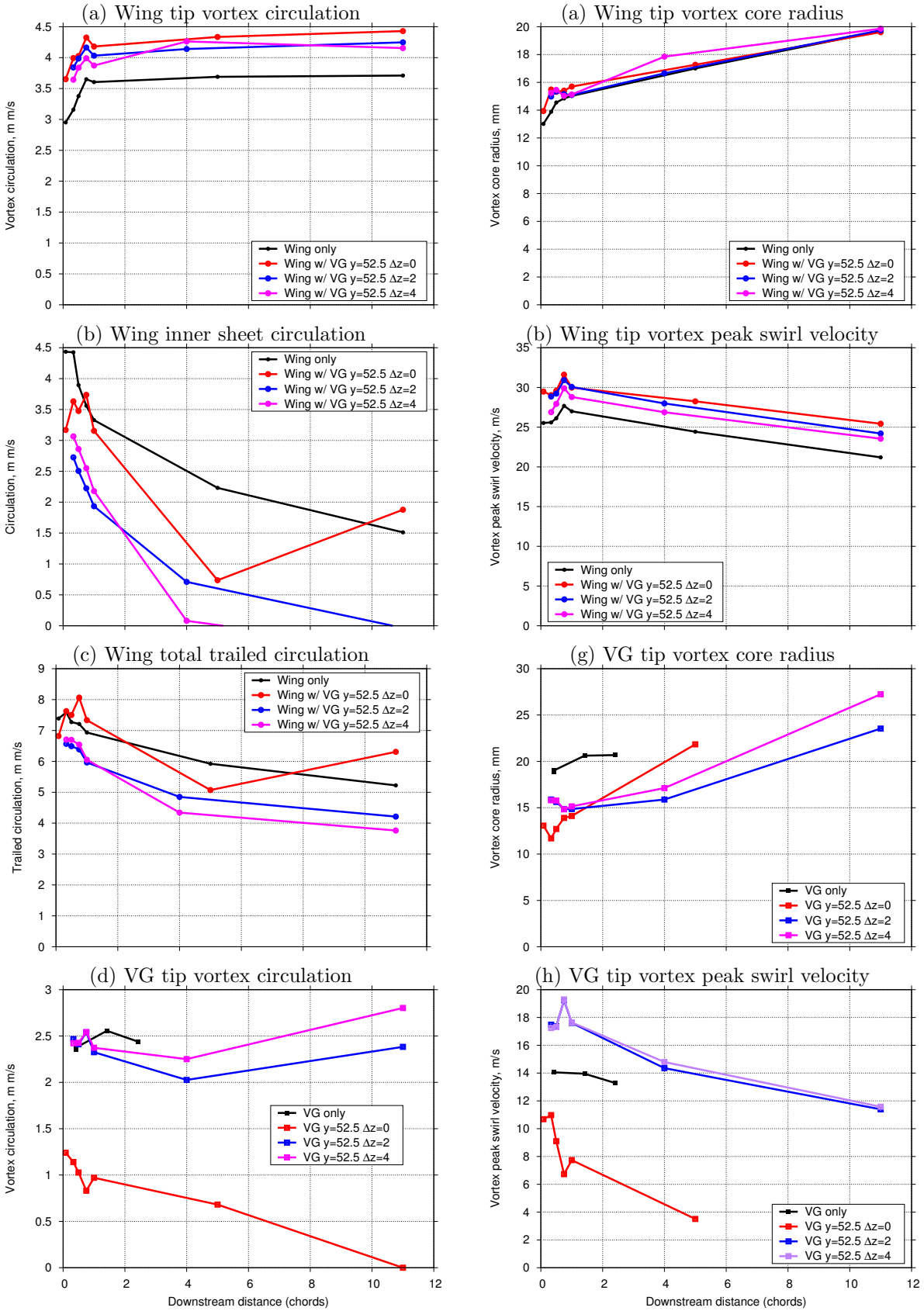

Figure 39. Wing-vortex interaction at $y = 52.5$-in. (1.0 chords inboard of tip)

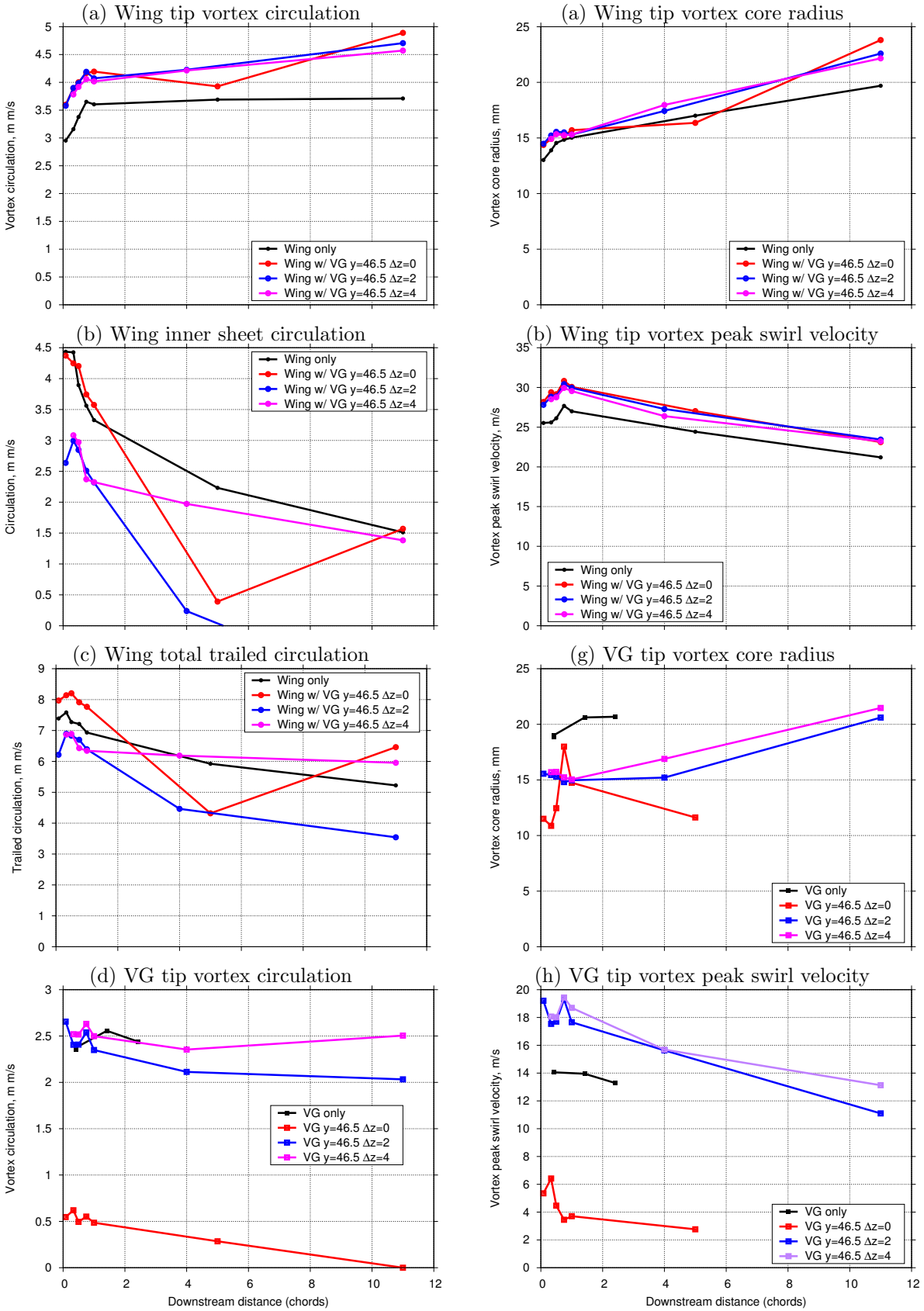

Figure 40. Wing-vortex interaction at $y = 46.5$-in. (1.5 chords inboard of tip)

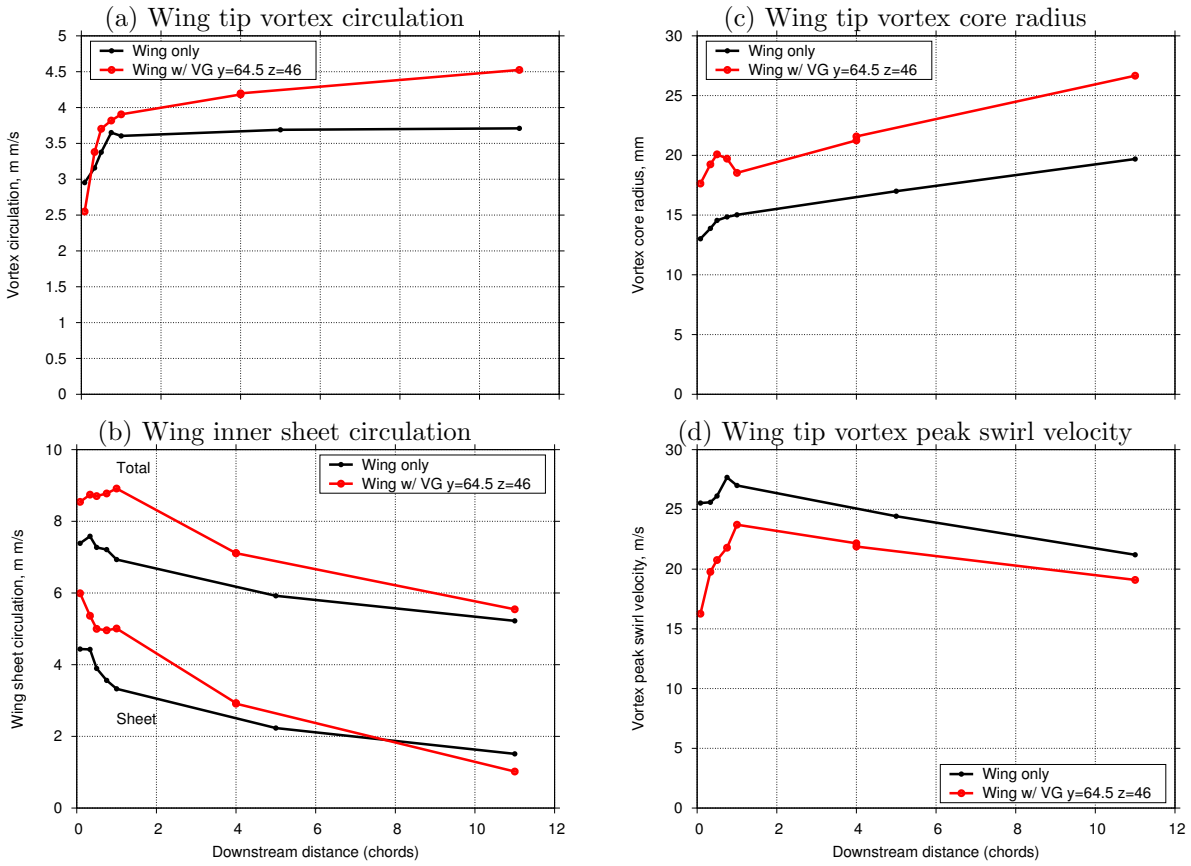

Figure 41. Direct wing-vortex interaction at the wing tip

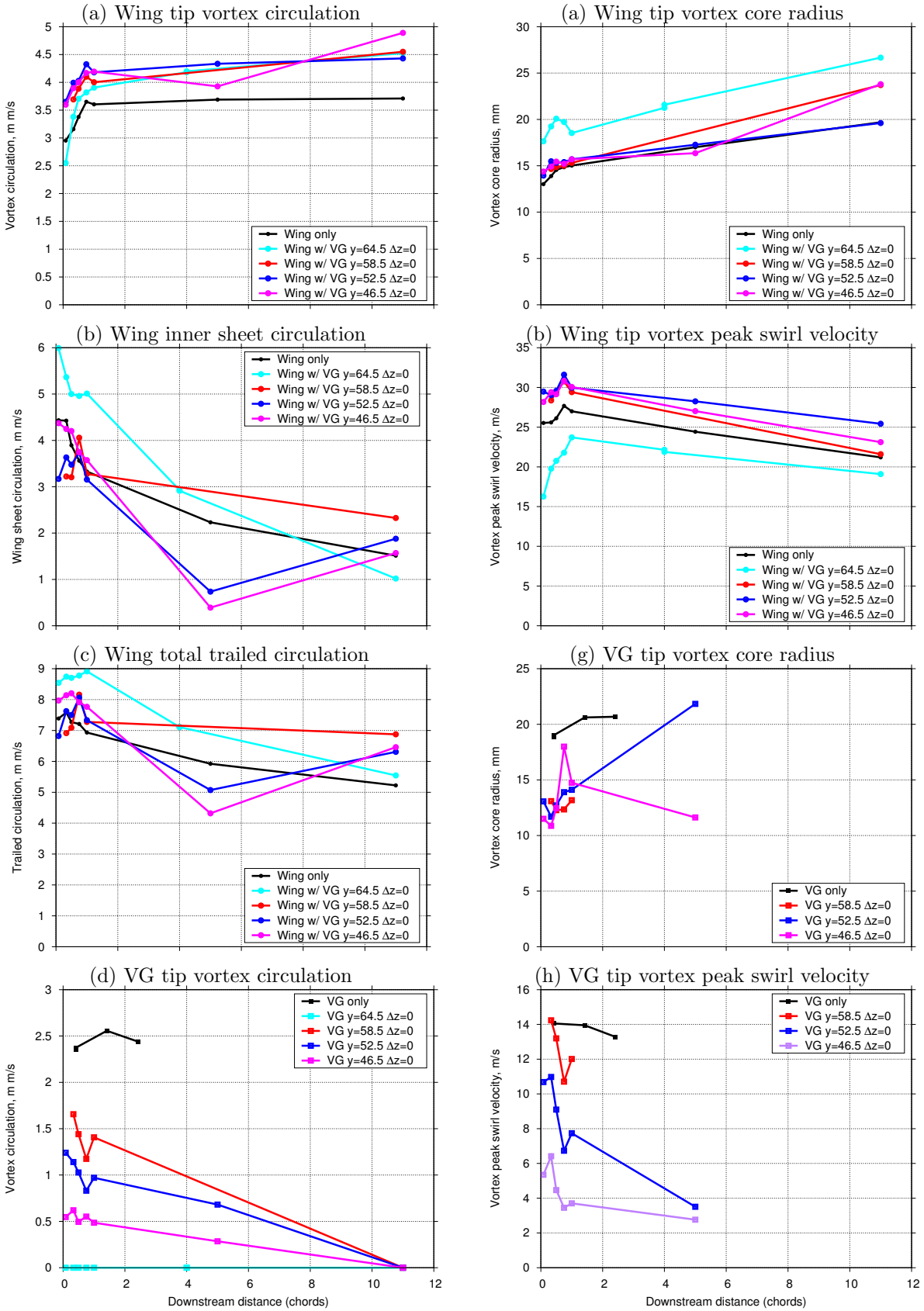

Figure 42. Direct wing-vortex interactions (nominally zero vertical separation) at four spanwise locations

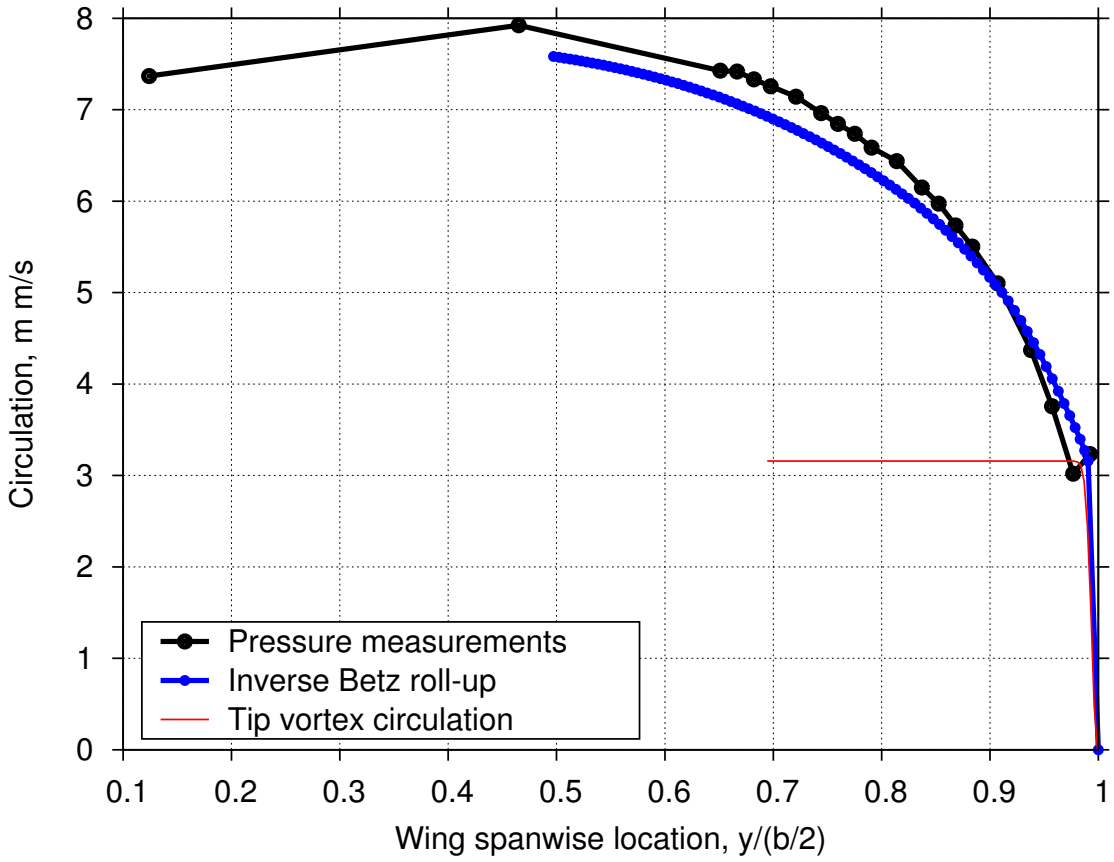

Figure 43. Wing loading reconstructed using the inverse Betz roll-up from measurements at 4-in. behind the wing TE

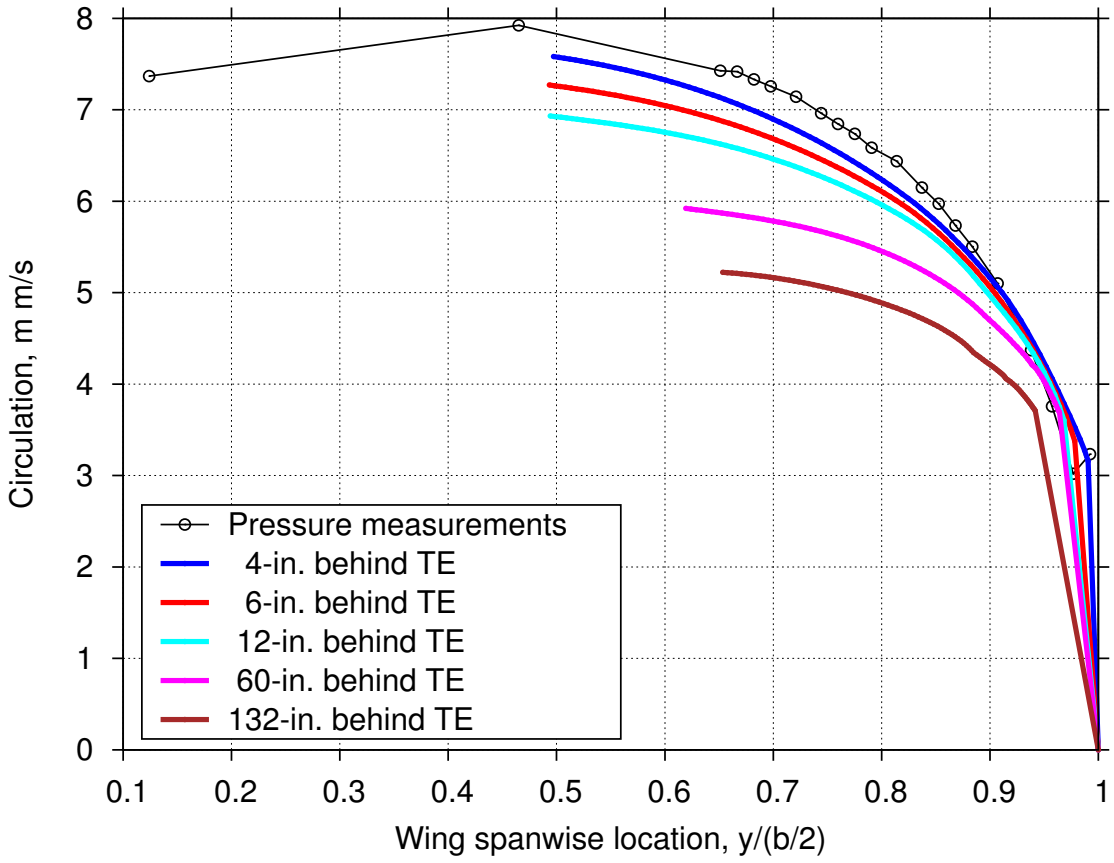

Figure 44. Wing loading reconstructed using the inverse Betz roll-up from measurements at several downstream distances

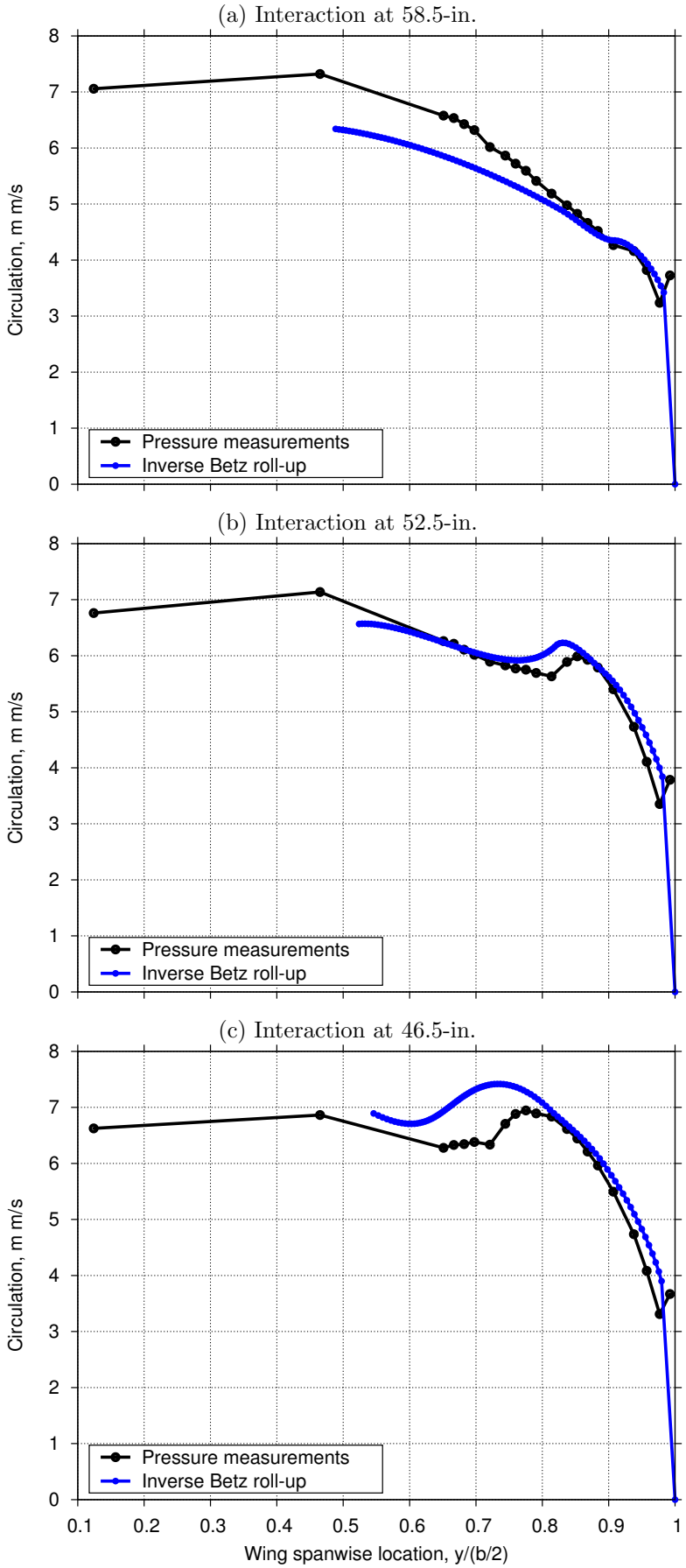

Figure 45. Close vortex interactions with a 2-in. vertical separation at three spanwise locations

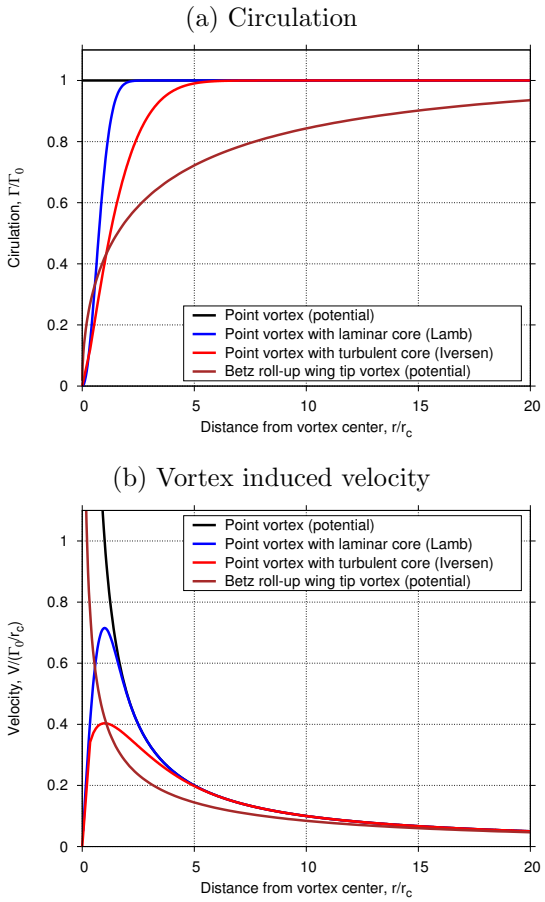

Figure 46. Vortex circulation and induced velocity for a point vortex and lift generated vortex (Betz roll-up)

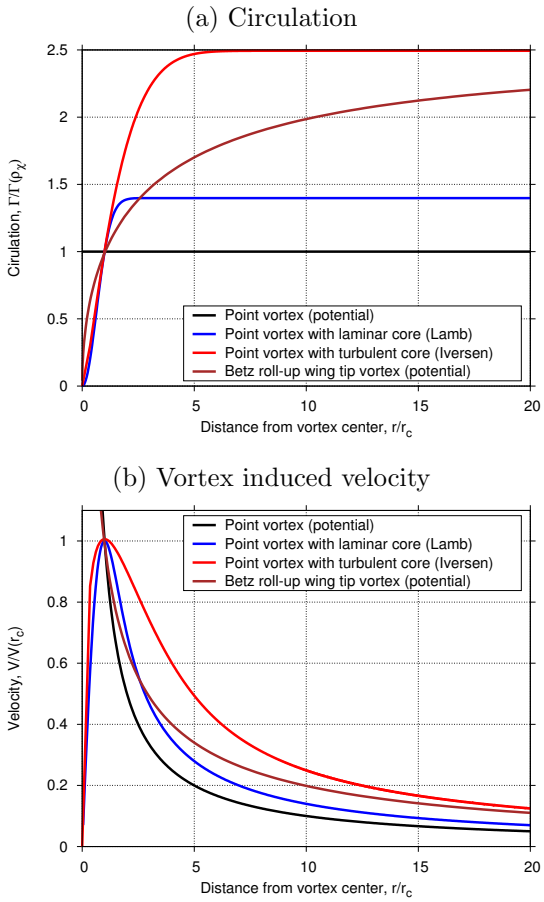

Figure 47. Vortex circulation and induced velocity normalized with the respective core values

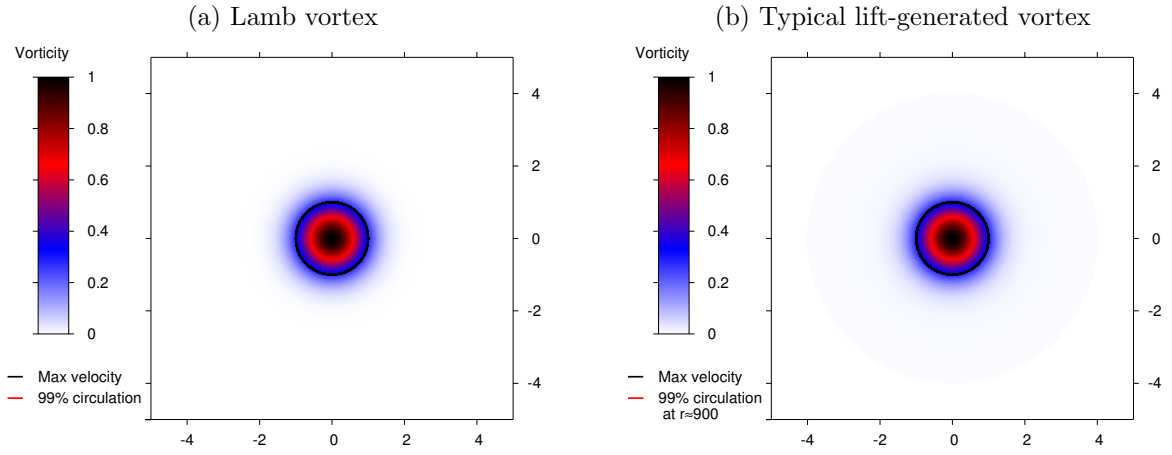

Figure 48. Schematic showing the difference between the core radius (maximum swirl velocity) and vortex radius (99% circulation) for (a) the Lamb vortex, and, (b) a typical lift-generated vortex.

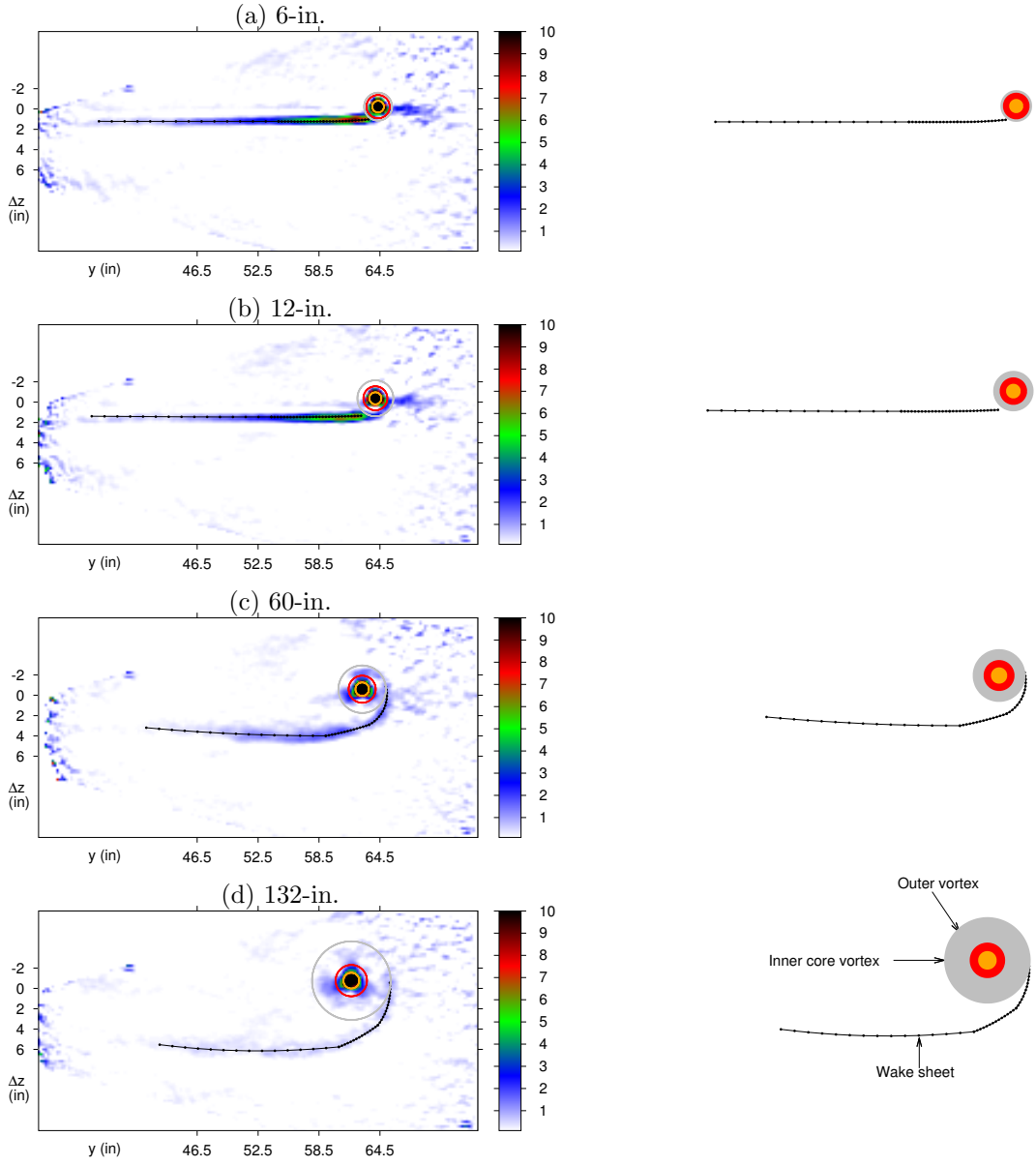

Figure 49. Visualization of the tip vortex roll-up process including an inner core vortex, a wake sheet and an outer vortex

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Appendix A.
Balance loads

Balance loads measurements were taken at each test point and compared with integrated wing surface pressure measurements. The wing zero lift angle was determined to be close to 0.5° using the balance lift measurements. The same zero-lift angle was assumed for all configurations, although it was later determined to vary slightly with the configuration. The tunnel blockage effect and induced flow angle due to the trolley assembly was established after the test with and without the VG and the VG trolley.

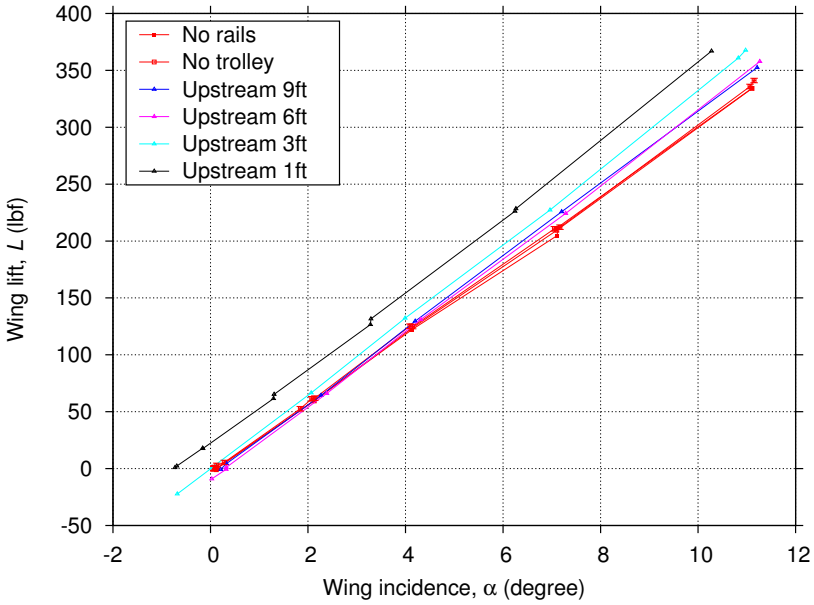

Figure 50. Wing lift variation as a function of wing incidence angle in several configurations with and without the VG trolley assembly upstream of the wing. (Data)

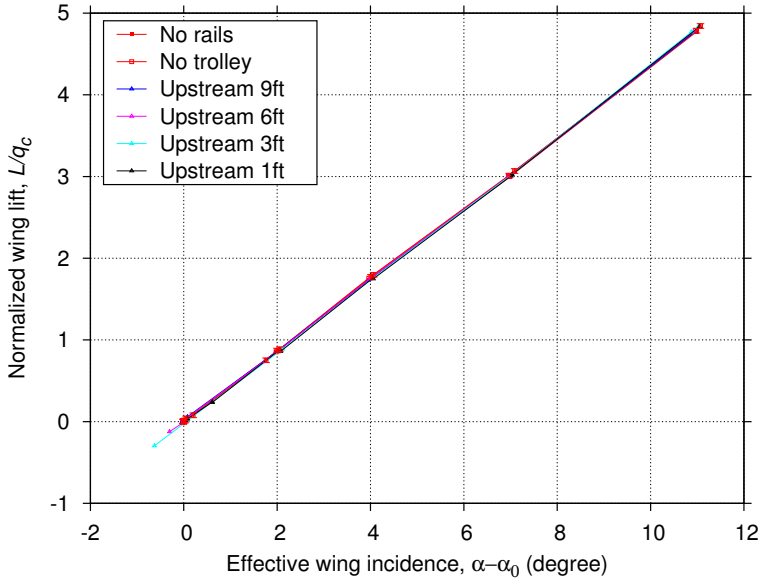

Figure 51. Corrected wing lift coefficient variation as a function of corrected wing incidence angle in several configurations with and without the VG trolley assembly upstream of the wing. (Data)

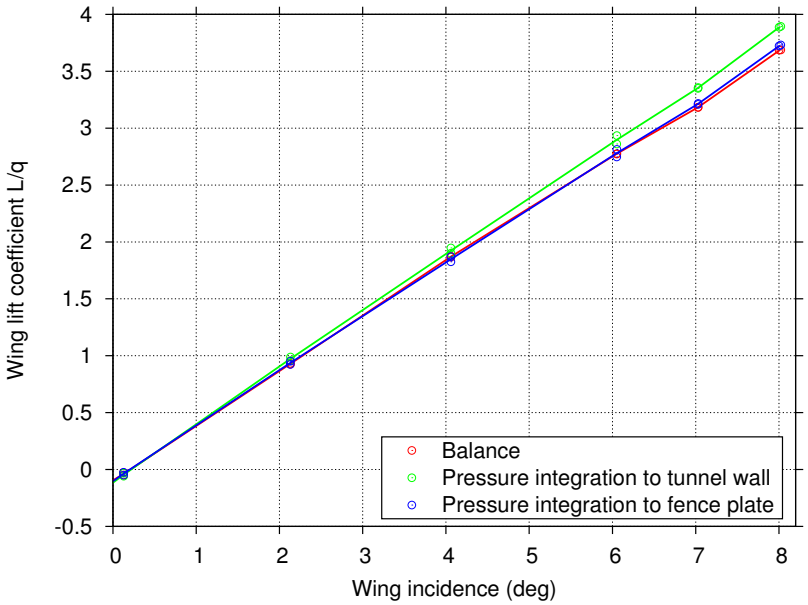

Figure 52. Comparison of wing lift measurement from balance and surface pressure integration for different incidence angles, $q_\infty = 70$ psf. (Data)

Appendix B.
Wing loading distribution

The surface pressurements were integrated to give the wing loading distribution for various angles of attack. Initial test points were measured without the VG, while later test points set the VG at zero incidence, fully retracted and farthest outboard of the wing tip to minimize its induced flow effects on the wing.

The no-VG measurements were performed using the baseline tape array only, whereas the VG at zero incidence measurements included other tape arrays resulting in a complete spanwise wing loading picture.

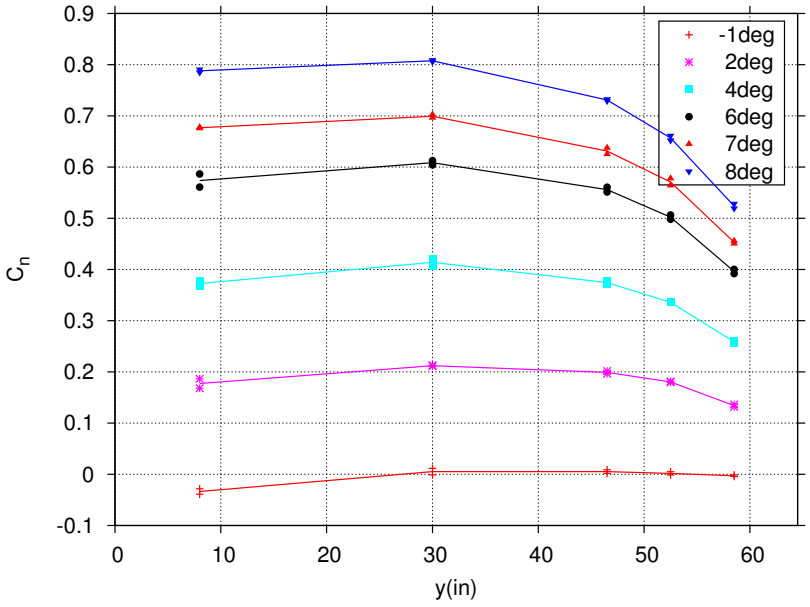

Figure 53. Wing lift with no VG installed

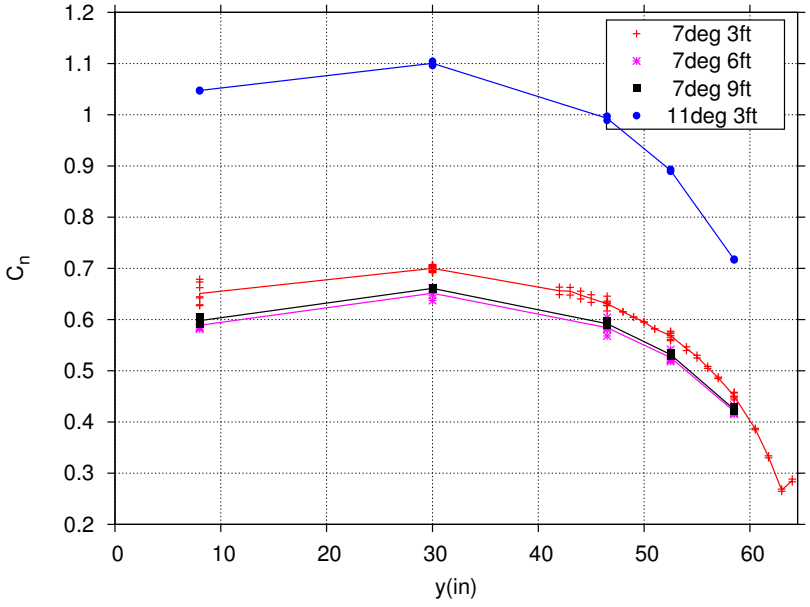

Figure 54. Wing lift with VG at zero incidence Data

The averaged wing loading data in Fig. 56, for $\alpha_W = 7°$ with VG trolley 3 ft upstream, is constructed using surface pressure measurements with all five tape arrays. This is used for plotting vortex induced changes in loading for the wing/vortex interaction cases. At other wing incidence angles and/or trolley separation distances, only baseline tape array measurements were made. Therefore, this averaged loading distribution is scaled to match these other conditions.

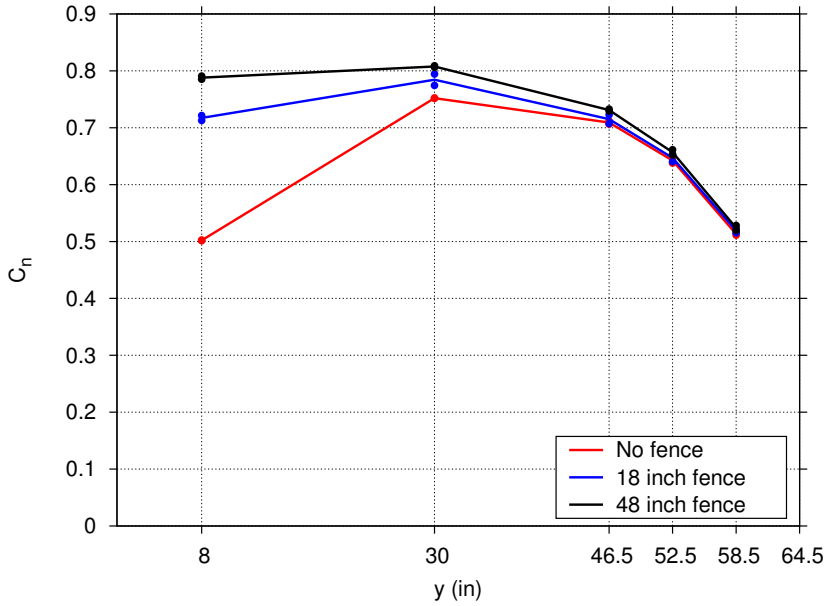

Figure 55. Effect of flow fence on wing lift, $\alpha_w = 8°$, $q_\infty = 70$ psf Data

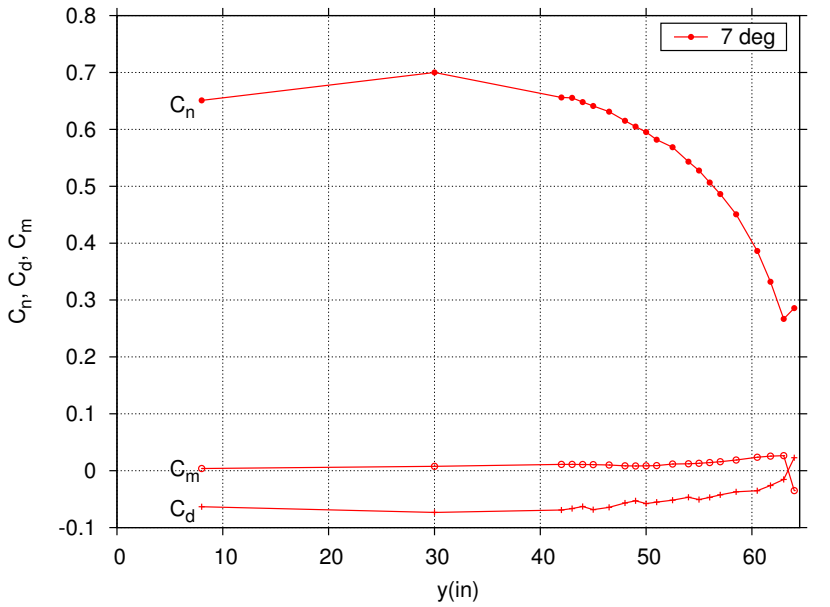

Figure 56. Average measured wing loading, $\alpha_w = 7°$, $q_\infty = 70$ psfm Data

B.1. Pressure measurements for wing loading

"Example wing loading 7deg (VG at 0deg)" Big Plate						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.388	6.584	57.030	74.155	41.474	Data
46.5	70.388	6.584	57.030	74.155	41.474	Data
52.5	70.388	6.584	57.030	74.155	41.474	Data
58.5	70.388	6.584	57.030	74.155	41.474	Data
30	70.388	6.584	57.030	74.155	41.474	Data
8	69.641	6.525	57.024	74.155	41.470	Data
46.5	69.641	6.525	57.024	74.155	41.470	Data
52.5	69.641	6.525	57.024	74.155	41.470	Data
58.5	69.641	6.525	57.024	74.155	41.470	Data
30	69.641	6.525	57.024	74.155	41.470	Data
8	70.158	6.526	57.024	74.155	41.465	Data
46.5	70.158	6.526	57.024	74.155	41.465	Data
52.5	70.158	6.526	57.024	74.155	41.465	Data
58.5	70.158	6.526	57.024	74.155	41.465	Data
30	70.158	6.526	57.024	74.155	41.465	Data
60.5	70.280	6.479	57.025	74.148	41.538	Data
61.75	70.280	6.479	57.025	74.148	41.538	Data
63	70.280	6.479	57.025	74.148	41.538	Data
64	70.280	6.479	57.025	74.148	41.538	Data
30	70.280	6.479	57.025	74.148	41.538	Data
60.5	69.998	6.533	57.030	74.149	41.537	Data
61.75	69.998	6.533	57.030	74.149	41.537	Data
63	69.998	6.533	57.030	74.149	41.537	Data
64	69.998	6.533	57.030	74.149	41.537	Data
30	69.998	6.533	57.030	74.149	41.537	Data
55	69.886	6.503	57.029	74.15	41.456	Data
56	69.886	6.503	57.029	74.15	41.456	Data
57	69.886	6.503	57.029	74.15	41.456	Data
54	69.886	6.503	57.029	74.15	41.456	Data
30	69.886	6.503	57.029	74.15	41.456	Data
55	69.880	6.484	57.026	74.147	41.456	Data
56	69.880	6.484	57.026	74.147	41.456	Data
57	69.880	6.484	57.026	74.147	41.456	Data
54	69.880	6.484	57.026	74.147	41.456	Data
30	69.880	6.484	57.026	74.147	41.456	Data
50	70.172	6.481	57.051	74.161	41.550	Data
51	70.172	6.481	57.051	74.161	41.550	Data
48	70.172	6.481	57.051	74.161	41.550	Data
49	70.172	6.481	57.051	74.161	41.550	Data
30	70.172	6.481	57.051	74.161	41.550	Data
50	70.297	6.466	57.050	74.157	41.549	Data
51	70.297	6.466	57.050	74.157	41.549	Data

"Example wing loading 7deg (VG at 0deg)" Big Plate						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	70.297	6.466	57.050	74.157	41.549	Data
49	70.297	6.466	57.050	74.157	41.549	Data
30	70.297	6.466	57.050	74.157	41.549	Data
45	70.381	6.515	57.035	74.157	41.508	Data
42	70.381	6.515	57.035	74.157	41.508	Data
43	70.381	6.515	57.035	74.157	41.508	Data
44	70.381	6.515	57.035	74.157	41.508	Data
30	70.381	6.515	57.035	74.157	41.508	Data
45	69.929	6.504	57.034	74.156	41.510	Data
42	69.929	6.504	57.034	74.156	41.510	Data
43	69.929	6.504	57.034	74.156	41.510	Data
44	69.929	6.504	57.034	74.156	41.510	Data
30	69.929	6.504	57.034	74.156	41.510	Data
8	70.510	6.501	57.025	74.147	41.571	Data
46.5	70.510	6.501	57.025	74.147	41.571	Data
52.5	70.510	6.501	57.025	74.147	41.571	Data
58.5	70.510	6.501	57.025	74.147	41.571	Data
30	70.510	6.501	57.025	74.147	41.571	Data
8	69.532	6.448	57.025	74.144	41.572	Data
46.5	69.532	6.448	57.025	74.144	41.572	Data
52.5	69.532	6.448	57.025	74.144	41.572	Data
58.5	69.532	6.448	57.025	74.144	41.572	Data
30	69.532	6.448	57.025	74.144	41.572	Data
8	68.871	6.499	111.477	74.343	41.511	Data
46.5	68.871	6.499	111.477	74.343	41.511	Data
52.5	68.871	6.499	111.477	74.343	41.511	Data
58.5	68.871	6.499	111.477	74.343	41.511	Data
30	68.871	6.499	111.477	74.343	41.511	Data
8	68.997	6.498	111.476	74.343	41.511	Data
46.5	68.997	6.498	111.476	74.343	41.511	Data
52.5	68.997	6.498	111.476	74.343	41.511	Data
58.5	68.997	6.498	111.476	74.343	41.511	Data
30	68.997	6.498	111.476	74.343	41.511	Data

Table 2: "Example wing loading 7deg (VG at 0deg)"

"Example wing loading 11deg (VG at 0deg)" Big Plate						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.106	10.546	111.475	74.343	41.500	Data
46.5	71.106	10.546	111.475	74.343	41.500	Data
52.5	71.106	10.546	111.475	74.343	41.500	Data
58.5	71.106	10.546	111.475	74.343	41.500	Data
30	71.106	10.546	111.475	74.343	41.500	Data
8	71.395	10.522	111.471	74.342	41.499	Data

"Example wing loading 11deg (VG at 0deg)" Big Plate						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	71.395	10.522	111.471	74.342	41.499	Data
52.5	71.395	10.522	111.471	74.342	41.499	Data
58.5	71.395	10.522	111.471	74.342	41.499	Data
30	71.395	10.522	111.471	74.342	41.499	Data

Table 3: "Example wing loading 11deg (VG at 0deg)"

"Example wing loading 7deg (VG at 0deg 6ft upstream)" Big Plate						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.812	6.459	92.977	74.144	41.550	Data
46.5	69.812	6.459	92.977	74.144	41.550	Data
52.5	69.812	6.459	92.977	74.144	41.550	Data
58.5	69.812	6.459	92.977	74.144	41.550	Data
30	69.812	6.459	92.977	74.144	41.550	Data
8	70.030	6.496	92.985	74.142	41.548	Data
46.5	70.030	6.496	92.985	74.142	41.548	Data
52.5	70.030	6.496	92.985	74.142	41.548	Data
58.5	70.030	6.496	92.985	74.142	41.548	Data
30	70.030	6.496	92.985	74.142	41.548	Data
8	68.470	6.498	147.500	74.342	41.477	Data
46.5	68.470	6.498	147.500	74.342	41.477	Data
52.5	68.470	6.498	147.500	74.342	41.477	Data
58.5	68.470	6.498	147.500	74.342	41.477	Data
30	68.470	6.498	147.500	74.342	41.477	Data
8	68.978	6.463	147.509	74.342	41.476	Data
46.5	68.978	6.463	147.509	74.342	41.476	Data
52.5	68.978	6.463	147.509	74.342	41.476	Data
58.5	68.978	6.463	147.509	74.342	41.476	Data
30	68.978	6.463	147.509	74.342	41.476	Data

Table 4: "Example wing loading 7deg (VG at 0deg 6ft upstream)"

"Example wing loading 7deg (VG at 0deg 9ft upstream)" Big Plate						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.244	6.442	129.110	74.153	41.655	Data
46.5	69.244	6.442	129.110	74.153	41.655	Data
52.5	69.244	6.442	129.110	74.153	41.655	Data
58.5	69.244	6.442	129.110	74.153	41.655	Data
30	69.244	6.442	129.110	74.153	41.655	Data
8	70.043	6.497	129.112	74.152	41.656	Data
46.5	70.043	6.497	129.112	74.152	41.656	Data
52.5	70.043	6.497	129.112	74.152	41.656	Data
58.5	70.043	6.497	129.112	74.152	41.656	Data

"Example wing loading 7deg (VG at 0deg 9ft upstream)" Big Plate						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.043	6.497	129.112	74.152	41.656	Data
8	72.169	6.439	129.101	74.154	41.643	Data
46.5	72.169	6.439	129.101	74.154	41.643	Data
52.5	72.169	6.439	129.101	74.154	41.643	Data
58.5	72.169	6.439	129.101	74.154	41.643	Data
30	72.169	6.439	129.101	74.154	41.643	Data
8	72.511	6.482	129.107	74.154	41.643	Data
46.5	72.511	6.482	129.107	74.154	41.643	Data
52.5	72.511	6.482	129.107	74.154	41.643	Data
58.5	72.511	6.482	129.107	74.154	41.643	Data
30	72.511	6.482	129.107	74.154	41.643	Data

Table 5: "Example wing loading 7deg (VG at 0deg 9ft upstream)"

"Wing loading -1 deg NoVG Big Plate"						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.722	-0.375	47.087	30.532	45.274	Data
46.5	69.722	-0.375	47.087	30.532	45.274	Data
52.5	69.722	-0.375	47.087	30.532	45.274	Data
58.5	69.722	-0.375	47.087	30.532	45.274	Data
30	69.722	-0.375	47.087	30.532	45.274	Data
8	69.248	-0.346	47.091	30.535	45.274	Data
46.5	69.248	-0.346	47.091	30.535	45.274	Data
52.5	69.248	-0.346	47.091	30.535	45.274	Data
58.5	69.248	-0.346	47.091	30.535	45.274	Data
30	69.248	-0.346	47.091	30.535	45.274	Data

Table 6: "Wing loading -1 deg NoVG Big Plate"

"Wing loading 2 deg NoVG Big Plate"						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.897	1.657	47.092	30.535	45.274	Data
46.5	69.897	1.657	47.092	30.535	45.274	Data
52.5	69.897	1.657	47.092	30.535	45.274	Data
58.5	69.897	1.657	47.092	30.535	45.274	Data
30	69.897	1.657	47.092	30.535	45.274	Data
8	70.104	1.670	47.089	30.537	45.274	Data
46.5	70.104	1.670	47.089	30.537	45.274	Data
52.5	70.104	1.670	47.089	30.537	45.274	Data
58.5	70.104	1.670	47.089	30.537	45.274	Data
30	70.104	1.670	47.089	30.537	45.274	Data

Table 7: "Wing loading 2 deg NoVG Big Plate"

"Wing loading 4 deg NoVG Big Plate"						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.819	3.571	47.116	30.532	45.271	Data
46.5	69.819	3.571	47.116	30.532	45.271	Data
52.5	69.819	3.571	47.116	30.532	45.271	Data
58.5	69.819	3.571	47.116	30.532	45.271	Data
30	69.819	3.571	47.116	30.532	45.271	Data
8	69.618	3.563	47.111	30.534	45.270	Data
46.5	69.618	3.563	47.111	30.534	45.270	Data
52.5	69.618	3.563	47.111	30.534	45.270	Data
58.5	69.618	3.563	47.111	30.534	45.270	Data
30	69.618	3.563	47.111	30.534	45.270	Data

Table 8: "Wing loading 4 deg NoVG Big Plate"

"Wing loading 6 deg NoVG Big Plate"						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.819	3.571	47.116	30.532	45.271	Data
46.5	69.819	3.571	47.116	30.532	45.271	Data
52.5	69.819	3.571	47.116	30.532	45.271	Data
58.5	69.819	3.571	47.116	30.532	45.271	Data
30	69.819	3.571	47.116	30.532	45.271	Data
8	69.618	3.563	47.111	30.534	45.270	Data
46.5	69.618	3.563	47.111	30.534	45.270	Data
52.5	69.618	3.563	47.111	30.534	45.270	Data
58.5	69.618	3.563	47.111	30.534	45.270	Data
30	69.618	3.563	47.111	30.534	45.270	Data

Table 9: "Wing loading 6 deg NoVG Big Plate"

"Wing loading 7 deg NoVG Big Plate"						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.345	6.582	47.118	30.533	45.268	Data
46.5	70.345	6.582	47.118	30.533	45.268	Data
52.5	70.345	6.582	47.118	30.533	45.268	Data
58.5	70.345	6.582	47.118	30.533	45.268	Data
30	70.345	6.582	47.118	30.533	45.268	Data
8	70.548	6.565	47.114	30.533	45.268	Data
46.5	70.548	6.565	47.114	30.533	45.268	Data
52.5	70.548	6.565	47.114	30.533	45.268	Data
58.5	70.548	6.565	47.114	30.533	45.268	Data
30	70.548	6.565	47.114	30.533	45.268	Data

Table 10: "Wing loading 7 deg NoVG Big Plate"

"Wing loading 8 deg NoVG Big Plate"						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.423	7.481	47.116	30.531	45.275	Data
46.5	70.423	7.481	47.116	30.531	45.275	Data
52.5	70.423	7.481	47.116	30.531	45.275	Data
58.5	70.423	7.481	47.116	30.531	45.275	Data
30	70.423	7.481	47.116	30.531	45.275	Data
8	70.254	7.526	47.117	30.531	45.274	Data
46.5	70.254	7.526	47.117	30.531	45.274	Data
52.5	70.254	7.526	47.117	30.531	45.274	Data
58.5	70.254	7.526	47.117	30.531	45.274	Data
30	70.254	7.526	47.117	30.531	45.274	Data

Table 11: "Wing loading 8 deg NoVG Big Plate"

"Wing loading 8 deg NoVG No Plate"						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.250	7.556	47.127	30.533	45.267	Data
8	69.325	7.551	47.130	30.533	45.267	Data
30	69.325	7.551	47.130	30.533	45.267	Data
30	69.250	7.556	47.127	30.533	45.267	Data
46.5	69.250	7.556	47.127	30.533	45.267	Data
46.5	69.325	7.551	47.130	30.533	45.267	Data
52.5	69.250	7.556	47.127	30.533	45.267	Data
52.5	69.325	7.551	47.130	30.533	45.267	Data
58.5	69.250	7.556	47.127	30.533	45.267	Data
58.5	69.325	7.551	47.130	30.533	45.267	Data

Table 12: "Wing loading 8 deg NoVG No Plate"

"Wing loading 8 deg NoVG Small Plate"						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.124	7.9544E+0	0.000	60.5	45.271	Data
8	70.109	7.9522E+0	0.000	60.5	45.270	Data
30	70.124	7.9544E+0	0.000	60.5	45.271	Data
30	70.109	7.9522E+0	0.000	60.5	45.270	Data
46.5	70.124	7.9544E+0	0.000	60.5	45.271	Data
46.5	70.109	7.9522E+0	0.000	60.5	45.270	Data
52.5	70.124	7.9544E+0	0.000	60.5	45.271	Data
52.5	70.109	7.9522E+0	0.000	60.5	45.270	Data
58.5	70.124	7.9544E+0	0.000	60.5	45.271	Data
58.5	70.109	7.9522E+0	0.000	60.5	45.270	Data

Table 13: "Wing loading 8 deg NoVG Small Plate"

Appendix C.
PIV flow field measurements

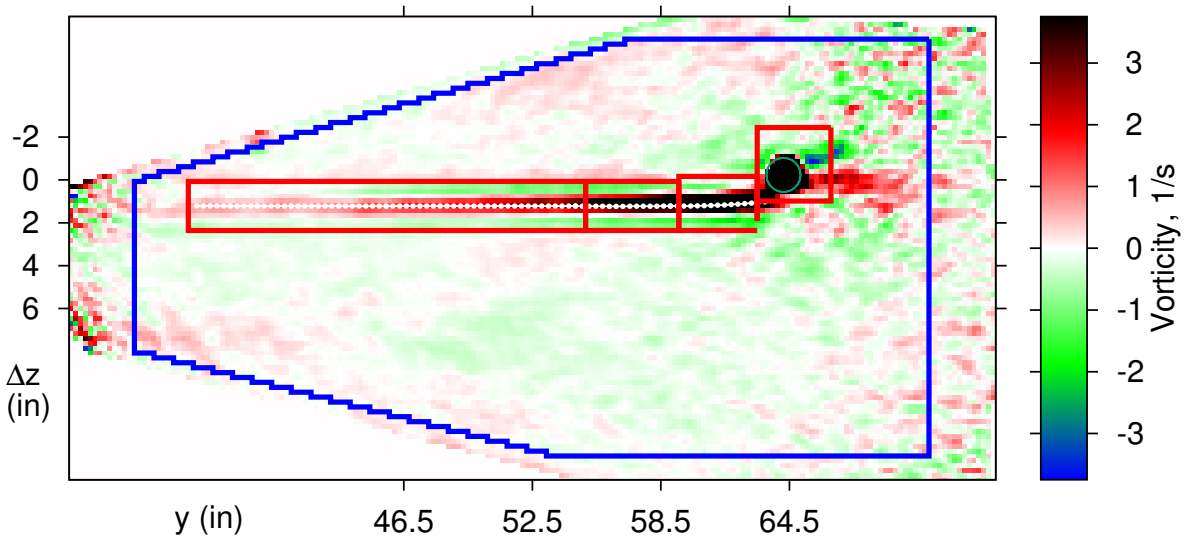

Figure 57. Boxes around tip vortex and inner wake sheet to avoid the "noise" in the data seen as low level vorticity

The datafiles include the entire measured flowfield. The include_flag variable (column 7 in the datafiles) can be used to identify the vectors included inside the small red boxes around the tip vortex and the inner wake sheet.

- include_flag= -99 is outside the blue close to the boundaries
- include_flag> 0 is inside the blue boxes
- include_flag> 1 is inside the red boxes

C.2. Wing only measurements

Flow field measurements in the wake of the isolated wing were performed at 7 downstream distance starting at 1 inch behind the trailing edge.

From 1/4-c (in)	From TE (in)	Data
10	1	Data
13	4	Data
15	6	Data
18	9	Data
21	12	Data
69	60	Data
141	132	Data

Table 14. PIV data for wing only, $q = 70$ psf, $\alpha_W = 7°$

C.3. VG only measurements

Flow field measurements in the wake of the isolated vortex generator were performed at 3 downstream distance starting at 36.5 inch behind the VG trailing edge. This is the same as 5 inches downstream of the wing trailing edge, for comparison with wing-vortex interactions.

From VG 1/4-c (in)	From VG TE (in)	Data
50	36.5	Data
62	48.5	Data
74	60.5	Data

Table 15. PIV data for VG only, $q = 70$ psf, $\alpha_{VG} = 4°$

C.4. Wing/vortex interaction measurements

The wing-vortex interaction measurements were done at ten locations at each downstream measurement plane. These locations correspond to a nominally direct hit, 2 inches below, and 4 inches below the wing, and in the spanwise direction at the wing tip and also at 0.5, 1.0 and 1.5 chords inboard of the tip.

	1.5 c inboard	1.0 c inboard	0.5 c inboard	At the tip
Direct hit	Data	Data	Data	Data
2 in below	Data	Data	Data	
4 in below	Data	Data	Data	

Table 16. PIV data for Wing/vortex interaction, $q = 70$ psf, $\alpha_{VG} = 4°$, $\alpha_W = 4°$, 10 in behind wing 1/4-c.

	1.5 c inboard	1.0 c inboard	0.5 c inboard	At the tip
Direct hit	Data	Data	Data	Data
2 in below	Data	Data	Data	
4 in below	Data	Data	Data	

Table 17. PIV data for Wing/vortex interaction, $q = 70$ psf, $\alpha_{VG} = 4°$, $\alpha_W = 4°$, 13 in behind wing 1/4-c.

	1.5 c inboard	1.0 c inboard	0.5 c inboard	At the tip
Direct hit	Data	Data	Data	Data
2 in below	Data	Data	Data	
4 in below	Data	Data	Data	

Table 18. PIV data for Wing/vortex interaction, $q = 70$ psf, $\alpha_{VG} = 4°$, $\alpha_W = 4°$, 15 in behind wing 1/4-c.

	1.5 c inboard	1.0 c inboard	0.5 c inboard	At the tip
Direct hit	Data	Data	Data	Data
2 in below	Data	Data	Data	
4 in below	Data	Data	Data	

Table 19. PIV data for Wing/vortex interaction, $q = 70$ psf, $\alpha_{VG} = 4°$, $\alpha_W = 4°$, 18 in behind wing 1/4-c.

	1.5 c inboard	1.0 c inboard	0.5 c inboard	At the tip
Direct hit	Data	Data	Data	Data
2 in below	Data	Data	Data	
4 in below	Data	Data	Data	

Table 20. PIV data for Wing/vortex interaction, $q = 70$ psf, $\alpha_{VG} = 4°$, $\alpha_W = 4°$, 21 in behind wing 1/4-c.

	1.5 c inboard	1.0 c inboard	0.5 c inboard	At the tip
Direct hit	Data	Data	Data	Data
2 in below	Data	Data	Data	
4 in below	Data	Data	Data	

Table 21. PIV data for Wing/vortex interaction, $q = 70$ psf, $\alpha_{VG} = 4°$, $\alpha_W = 4°$, 57 in behind wing 1/4-c.

	1.5 c inboard	1.0 c inboard	0.5 c inboard	At the tip
Direct hit	Data	Data	Data	Data
2 in below	Data	Data	Data	
4 in below	Data	Data	Data	

Table 22. PIV data for Wing/vortex interaction, $q = 70$ psf, $\alpha_{VG} = 4°$, $\alpha_W = 4°$, 141 in behind wing 1/4-c.

Appendix D.
Surface pressure measurements

Measurements of wing-vortex interactions were performed for several combinations of the test conditions as predominantly horizontal and vertical sweeps of the vortex interaction relative to the wing. The horizontal sweeps were performed as nominally direct hit, 2 inches below, and 4 inches below the wing. Vertical sweeps were performed at the wing tip and also at 0.5, 1.0 and 1.5 chords inboard of the tip.

The following subsections give the data corresponding to these measurement sweeps. The wing loading distribution as well as the change in loading due to vortex interaction are shown graphically in the begining. The surface pressure measurements are tabulated after that.

D.5. Horizontal VG vortex sweep at height z=46, q=70, α_{VG}=4, α_W=7, RO-tip

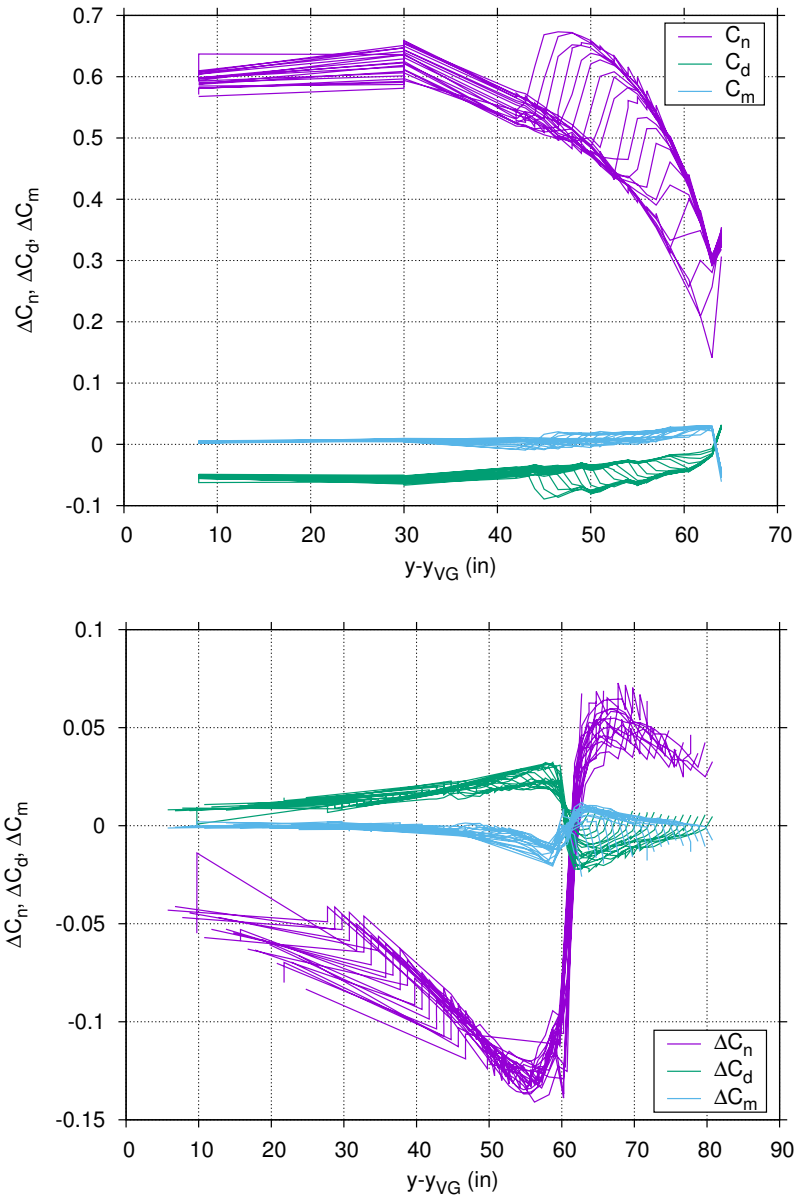

Figure 58. VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — (Data)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.874	6.544	57.054	43.76	46.004	Data
8	69.449	6.515	57.051	43.76	46.004	Data
30	69.143	6.500	57.005	43.749	45.989	Data
30	70.458	6.516	57.003	43.752	45.991	Data
30	68.874	6.544	57.054	43.76	46.004	Data
30	69.213	6.515	57.005	43.755	46.002	Data
30	68.737	6.522	57.013	43.754	46.002	Data
30	69.384	6.569	57.020	43.741	45.994	Data
30	69.449	6.515	57.051	43.76	46.004	Data
30	69.727	6.556	57.001	43.751	45.991	Data
30	69.600	6.517	57.005	43.749	45.989	Data
30	69.930	6.487	57.019	43.741	45.994	Data
42	70.458	6.516	57.003	43.752	45.991	Data
42	69.727	6.556	57.001	43.751	45.991	Data
43	70.458	6.516	57.003	43.752	45.991	Data
43	69.727	6.556	57.001	43.751	45.991	Data
44	70.458	6.516	57.003	43.752	45.991	Data
44	69.727	6.556	57.001	43.751	45.991	Data
45	70.458	6.516	57.003	43.752	45.991	Data
45	69.727	6.556	57.001	43.751	45.991	Data
46.5	68.874	6.544	57.054	43.76	46.004	Data
46.5	69.449	6.515	57.051	43.76	46.004	Data
48	69.213	6.515	57.005	43.755	46.002	Data
48	68.737	6.522	57.013	43.754	46.002	Data
49	69.213	6.515	57.005	43.755	46.002	Data
49	68.737	6.522	57.013	43.754	46.002	Data
50	69.213	6.515	57.005	43.755	46.002	Data
50	68.737	6.522	57.013	43.754	46.002	Data
51	69.213	6.515	57.005	43.755	46.002	Data
51	68.737	6.522	57.013	43.754	46.002	Data
52.5	68.874	6.544	57.054	43.76	46.004	Data
52.5	69.449	6.515	57.051	43.76	46.004	Data
54	69.143	6.500	57.005	43.749	45.989	Data
54	69.600	6.517	57.005	43.749	45.989	Data
55	69.143	6.500	57.005	43.749	45.989	Data
55	69.600	6.517	57.005	43.749	45.989	Data
56	69.143	6.500	57.005	43.749	45.989	Data
56	69.600	6.517	57.005	43.749	45.989	Data
57	69.143	6.500	57.005	43.749	45.989	Data
57	69.600	6.517	57.005	43.749	45.989	Data
58.5	68.874	6.544	57.054	43.76	46.004	Data
58.5	69.449	6.515	57.051	43.76	46.004	Data
60.5	69.930	6.487	57.019	43.741	45.994	Data
60.5	69.384	6.569	57.020	43.741	45.994	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.930	6.487	57.019	43.741	45.994	Data
61.75	69.384	6.569	57.020	43.741	45.994	Data
63	69.930	6.487	57.019	43.741	45.994	Data
63	69.384	6.569	57.020	43.741	45.994	Data
64	69.930	6.487	57.019	43.741	45.994	Data
64	69.384	6.569	57.020	43.741	45.994	Data

Table 23: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.684	6.560	57.052	44.742	46.004	Data
8	69.203	6.599	57.059	44.742	46.004	Data
30	69.216	6.521	57.020	44.752	45.994	Data
30	69.189	6.480	57.015	44.743	45.989	Data
30	70.913	6.529	57.002	44.747	45.990	Data
30	69.282	6.467	57.012	44.743	45.989	Data
30	69.203	6.599	57.059	44.742	46.004	Data
30	68.932	6.537	57.020	44.752	45.994	Data
30	68.881	6.550	57.019	44.739	46.001	Data
30	68.899	6.520	57.018	44.739	46.001	Data
30	69.890	6.486	57.005	44.747	45.991	Data
30	68.684	6.560	57.052	44.742	46.004	Data
42	70.913	6.529	57.002	44.747	45.990	Data
42	69.890	6.486	57.005	44.747	45.991	Data
43	70.913	6.529	57.002	44.747	45.990	Data
43	69.890	6.486	57.005	44.747	45.991	Data
44	70.913	6.529	57.002	44.747	45.990	Data
44	69.890	6.486	57.005	44.747	45.991	Data
45	70.913	6.529	57.002	44.747	45.990	Data
45	69.890	6.486	57.005	44.747	45.991	Data
46.5	69.203	6.599	57.059	44.742	46.004	Data
46.5	68.684	6.560	57.052	44.742	46.004	Data
48	68.881	6.550	57.019	44.739	46.001	Data
48	68.899	6.520	57.018	44.739	46.001	Data
49	68.899	6.520	57.018	44.739	46.001	Data
49	68.881	6.550	57.019	44.739	46.001	Data
50	68.899	6.520	57.018	44.739	46.001	Data
50	68.881	6.550	57.019	44.739	46.001	Data
51	68.899	6.520	57.018	44.739	46.001	Data
51	68.881	6.550	57.019	44.739	46.001	Data
52.5	69.203	6.599	57.059	44.742	46.004	Data
52.5	68.684	6.560	57.052	44.742	46.004	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.189	6.480	57.015	44.743	45.989	Data
54	69.282	6.467	57.012	44.743	45.989	Data
55	69.189	6.480	57.015	44.743	45.989	Data
55	69.282	6.467	57.012	44.743	45.989	Data
56	69.282	6.467	57.012	44.743	45.989	Data
56	69.189	6.480	57.015	44.743	45.989	Data
57	69.282	6.467	57.012	44.743	45.989	Data
57	69.189	6.480	57.015	44.743	45.989	Data
58.5	69.203	6.599	57.059	44.742	46.004	Data
58.5	68.684	6.560	57.052	44.742	46.004	Data
60.5	69.216	6.521	57.020	44.752	45.994	Data
60.5	68.932	6.537	57.020	44.752	45.994	Data
61.75	69.216	6.521	57.020	44.752	45.994	Data
61.75	68.932	6.537	57.020	44.752	45.994	Data
63	69.216	6.521	57.020	44.752	45.994	Data
63	68.932	6.537	57.020	44.752	45.994	Data
64	69.216	6.521	57.020	44.752	45.994	Data
64	68.932	6.537	57.020	44.752	45.994	Data

Table 24: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.220	6.500	57.051	45.745	46.004	Data
8	69.800	6.450	57.052	45.745	46.002	Data
30	70.601	6.519	56.999	45.739	45.990	Data
30	70.305	6.453	57.006	45.74	45.991	Data
30	69.297	6.535	57.023	45.742	45.995	Data
30	69.800	6.450	57.052	45.745	46.002	Data
30	69.220	6.500	57.051	45.745	46.004	Data
30	69.534	6.528	57.030	45.744	45.994	Data
30	68.850	6.536	57.013	45.735	46.000	Data
30	69.040	6.482	57.012	45.735	45.989	Data
30	68.382	6.500	57.007	45.735	46.000	Data
30	68.999	6.464	57.016	45.734	45.989	Data
42	70.601	6.519	56.999	45.739	45.990	Data
42	70.305	6.453	57.006	45.74	45.991	Data
43	70.601	6.519	56.999	45.739	45.990	Data
43	70.305	6.453	57.006	45.74	45.991	Data
44	70.601	6.519	56.999	45.739	45.990	Data
44	70.305	6.453	57.006	45.74	45.991	Data
45	70.601	6.519	56.999	45.739	45.990	Data
45	70.305	6.453	57.006	45.74	45.991	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	69.220	6.500	57.051	45.745	46.004	Data
46.5	69.800	6.450	57.052	45.745	46.002	Data
48	68.850	6.536	57.013	45.735	46.000	Data
48	68.382	6.500	57.007	45.735	46.000	Data
49	68.850	6.536	57.013	45.735	46.000	Data
49	68.382	6.500	57.007	45.735	46.000	Data
50	68.850	6.536	57.013	45.735	46.000	Data
50	68.382	6.500	57.007	45.735	46.000	Data
51	68.850	6.536	57.013	45.735	46.000	Data
51	68.382	6.500	57.007	45.735	46.000	Data
52.5	69.220	6.500	57.051	45.745	46.004	Data
52.5	69.800	6.450	57.052	45.745	46.002	Data
54	69.040	6.482	57.012	45.735	45.989	Data
54	68.999	6.464	57.016	45.734	45.989	Data
55	69.040	6.482	57.012	45.735	45.989	Data
55	68.999	6.464	57.016	45.734	45.989	Data
56	69.040	6.482	57.012	45.735	45.989	Data
56	68.999	6.464	57.016	45.734	45.989	Data
57	69.040	6.482	57.012	45.735	45.989	Data
57	68.999	6.464	57.016	45.734	45.989	Data
58.5	69.220	6.500	57.051	45.745	46.004	Data
58.5	69.800	6.450	57.052	45.745	46.002	Data
60.5	69.297	6.535	57.023	45.742	45.995	Data
60.5	69.534	6.528	57.030	45.744	45.994	Data
61.75	69.297	6.535	57.023	45.742	45.995	Data
61.75	69.534	6.528	57.030	45.744	45.994	Data
63	69.297	6.535	57.023	45.742	45.995	Data
63	69.534	6.528	57.030	45.744	45.994	Data
64	69.297	6.535	57.023	45.742	45.995	Data
64	69.534	6.528	57.030	45.744	45.994	Data

Table 25: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=45.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.348	6.492	57.053	46.743	46.003	Data
8	68.824	6.505	57.054	46.744	46.004	Data
8	69.397	6.528	57.018	46.746	45.997	Data
8	69.840	6.440	57.019	46.744	45.997	Data
30	69.397	6.528	57.018	46.746	45.997	Data
30	69.187	6.576	57.008	46.743	46.055	Data
30	70.030	6.577	57.002	46.741	46.055	Data
30	70.093	6.506	57.002	46.744	45.991	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.762	6.510	57.059	46.744	46.008	Data
30	69.832	6.511	56.980	46.742	46.009	Data
30	69.494	6.494	57.041	46.747	45.995	Data
30	68.245	6.475	57.059	46.744	46.008	Data
30	69.864	6.518	57.007	46.74	45.989	Data
30	69.840	6.440	57.019	46.744	45.997	Data
30	69.966	6.496	57.006	46.745	45.991	Data
30	68.824	6.505	57.054	46.744	46.004	Data
30	69.348	6.492	57.053	46.743	46.003	Data
30	68.858	6.476	57.006	46.748	46.005	Data
30	69.544	6.463	57.020	46.741	46.000	Data
30	69.120	6.520	57.044	46.746	45.995	Data
30	69.750	6.534	56.981	46.743	46.009	Data
30	69.134	6.544	57.009	46.741	45.989	Data
30	69.839	6.545	57.016	46.743	46.000	Data
30	69.766	6.486	57.003	46.748	46.005	Data
42	70.093	6.506	57.002	46.744	45.991	Data
42	69.766	6.486	57.003	46.748	46.005	Data
42	69.966	6.496	57.006	46.745	45.991	Data
42	68.858	6.476	57.006	46.748	46.005	Data
43	70.093	6.506	57.002	46.744	45.991	Data
43	69.766	6.486	57.003	46.748	46.005	Data
43	68.858	6.476	57.006	46.748	46.005	Data
43	69.966	6.496	57.006	46.745	45.991	Data
44	70.093	6.506	57.002	46.744	45.991	Data
44	69.766	6.486	57.003	46.748	46.005	Data
44	68.858	6.476	57.006	46.748	46.005	Data
44	69.966	6.496	57.006	46.745	45.991	Data
45	70.093	6.506	57.002	46.744	45.991	Data
45	69.766	6.486	57.003	46.748	46.005	Data
45	68.858	6.476	57.006	46.748	46.005	Data
45	69.966	6.496	57.006	46.745	45.991	Data
46.5	69.397	6.528	57.018	46.746	45.997	Data
46.5	69.840	6.440	57.019	46.744	45.997	Data
46.5	69.348	6.492	57.053	46.743	46.003	Data
46.5	68.824	6.505	57.054	46.744	46.004	Data
48	69.544	6.463	57.020	46.741	46.000	Data
48	68.762	6.510	57.059	46.744	46.008	Data
48	68.245	6.475	57.059	46.744	46.008	Data
48	69.839	6.545	57.016	46.743	46.000	Data
49	69.544	6.463	57.020	46.741	46.000	Data
49	68.762	6.510	57.059	46.744	46.008	Data
49	68.245	6.475	57.059	46.744	46.008	Data
49	69.839	6.545	57.016	46.743	46.000	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	69.544	6.463	57.020	46.741	46.000	Data
50	69.839	6.545	57.016	46.743	46.000	Data
50	68.245	6.475	57.059	46.744	46.008	Data
50	68.762	6.510	57.059	46.744	46.008	Data
51	69.544	6.463	57.020	46.741	46.000	Data
51	69.839	6.545	57.016	46.743	46.000	Data
51	68.245	6.475	57.059	46.744	46.008	Data
51	68.762	6.510	57.059	46.744	46.008	Data
52.5	69.397	6.528	57.018	46.746	45.997	Data
52.5	69.348	6.492	57.053	46.743	46.003	Data
52.5	69.840	6.440	57.019	46.744	45.997	Data
52.5	68.824	6.505	57.054	46.744	46.004	Data
54	69.832	6.511	56.980	46.742	46.009	Data
54	69.134	6.544	57.009	46.741	45.989	Data
54	69.864	6.518	57.007	46.74	45.989	Data
54	69.750	6.534	56.981	46.743	46.009	Data
55	69.832	6.511	56.980	46.742	46.009	Data
55	69.134	6.544	57.009	46.741	45.989	Data
55	69.864	6.518	57.007	46.74	45.989	Data
55	69.750	6.534	56.981	46.743	46.009	Data
56	69.134	6.544	57.009	46.741	45.989	Data
56	69.832	6.511	56.980	46.742	46.009	Data
56	69.864	6.518	57.007	46.74	45.989	Data
56	69.750	6.534	56.981	46.743	46.009	Data
57	69.134	6.544	57.009	46.741	45.989	Data
57	69.832	6.511	56.980	46.742	46.009	Data
57	69.864	6.518	57.007	46.74	45.989	Data
57	69.750	6.534	56.981	46.743	46.009	Data
58.5	69.397	6.528	57.018	46.746	45.997	Data
58.5	69.348	6.492	57.053	46.743	46.003	Data
58.5	69.840	6.440	57.019	46.744	45.997	Data
58.5	68.824	6.505	57.054	46.744	46.004	Data
60.5	69.120	6.520	57.044	46.746	45.995	Data
60.5	69.187	6.576	57.008	46.743	46.055	Data
60.5	69.494	6.494	57.041	46.747	45.995	Data
60.5	70.030	6.577	57.002	46.741	46.055	Data
61.75	69.120	6.520	57.044	46.746	45.995	Data
61.75	69.187	6.576	57.008	46.743	46.055	Data
61.75	69.494	6.494	57.041	46.747	45.995	Data
61.75	70.030	6.577	57.002	46.741	46.055	Data
63	69.120	6.520	57.044	46.746	45.995	Data
63	69.187	6.576	57.008	46.743	46.055	Data
63	69.494	6.494	57.041	46.747	45.995	Data
63	70.030	6.577	57.002	46.741	46.055	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	69.120	6.520	57.044	46.746	45.995	Data
64	69.494	6.494	57.041	46.747	45.995	Data
64	69.187	6.576	57.008	46.743	46.055	Data
64	70.030	6.577	57.002	46.741	46.055	Data

Table 26: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.294	6.499	57.056	47.748	46.003	Data
8	69.587	6.478	57.057	47.748	46.003	Data
30	69.294	6.499	57.056	47.748	46.003	Data
30	69.683	6.530	57.017	47.744	45.989	Data
30	67.590	6.492	57.007	47.745	45.988	Data
30	70.123	6.528	57.007	47.741	45.990	Data
30	69.587	6.478	57.057	47.748	46.003	Data
30	70.388	6.517	57.019	47.749	46.000	Data
30	69.327	6.517	57.015	47.748	46.000	Data
30	69.135	6.509	57.038	47.75	45.987	Data
30	68.818	6.497	57.039	47.751	45.987	Data
30	70.047	6.507	57.003	47.743	45.990	Data
42	70.123	6.528	57.007	47.741	45.990	Data
42	70.047	6.507	57.003	47.743	45.990	Data
43	70.123	6.528	57.007	47.741	45.990	Data
43	70.047	6.507	57.003	47.743	45.990	Data
44	70.123	6.528	57.007	47.741	45.990	Data
44	70.047	6.507	57.003	47.743	45.990	Data
45	70.123	6.528	57.007	47.741	45.990	Data
45	70.047	6.507	57.003	47.743	45.990	Data
46.5	69.294	6.499	57.056	47.748	46.003	Data
46.5	69.587	6.478	57.057	47.748	46.003	Data
48	69.327	6.517	57.015	47.748	46.000	Data
48	70.388	6.517	57.019	47.749	46.000	Data
49	70.388	6.517	57.019	47.749	46.000	Data
49	69.327	6.517	57.015	47.748	46.000	Data
50	70.388	6.517	57.019	47.749	46.000	Data
50	69.327	6.517	57.015	47.748	46.000	Data
51	70.388	6.517	57.019	47.749	46.000	Data
51	69.327	6.517	57.015	47.748	46.000	Data
52.5	69.294	6.499	57.056	47.748	46.003	Data
52.5	69.587	6.478	57.057	47.748	46.003	Data
54	67.590	6.492	57.007	47.745	45.988	Data
54	69.683	6.530	57.017	47.744	45.989	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	67.590	6.492	57.007	47.745	45.988	Data
55	69.683	6.530	57.017	47.744	45.989	Data
56	67.590	6.492	57.007	47.745	45.988	Data
56	69.683	6.530	57.017	47.744	45.989	Data
57	67.590	6.492	57.007	47.745	45.988	Data
57	69.683	6.530	57.017	47.744	45.989	Data
58.5	69.294	6.499	57.056	47.748	46.003	Data
58.5	69.587	6.478	57.057	47.748	46.003	Data
60.5	68.818	6.497	57.039	47.751	45.987	Data
60.5	69.135	6.509	57.038	47.75	45.987	Data
61.75	68.818	6.497	57.039	47.751	45.987	Data
61.75	69.135	6.509	57.038	47.75	45.987	Data
63	68.818	6.497	57.039	47.751	45.987	Data
63	69.135	6.509	57.038	47.75	45.987	Data
64	68.818	6.497	57.039	47.751	45.987	Data
64	69.135	6.509	57.038	47.75	45.987	Data

Table 27: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=47.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.233	6.571	57.053	48.755	46.003	Data
8	69.791	6.534	57.056	48.755	46.003	Data
30	70.483	6.485	57.011	48.753	45.999	Data
30	68.859	6.463	57.041	48.756	45.987	Data
30	70.458	6.467	57.003	48.754	45.990	Data
30	68.548	6.472	57.038	48.754	45.987	Data
30	70.598	6.515	57.001	48.755	45.990	Data
30	69.233	6.571	57.053	48.755	46.003	Data
30	69.540	6.527	57.019	48.756	46.000	Data
30	69.791	6.534	57.056	48.755	46.003	Data
30	68.234	6.540	57.015	48.745	45.989	Data
30	68.657	6.504	57.005	48.744	45.989	Data
42	70.458	6.467	57.003	48.754	45.990	Data
42	70.598	6.515	57.001	48.755	45.990	Data
43	70.458	6.467	57.003	48.754	45.990	Data
43	70.598	6.515	57.001	48.755	45.990	Data
44	70.458	6.467	57.003	48.754	45.990	Data
44	70.598	6.515	57.001	48.755	45.990	Data
45	70.458	6.467	57.003	48.754	45.990	Data
45	70.598	6.515	57.001	48.755	45.990	Data
46.5	69.233	6.571	57.053	48.755	46.003	Data
46.5	69.791	6.534	57.056	48.755	46.003	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	69.540	6.527	57.019	48.756	46.000	Data
48	70.483	6.485	57.011	48.753	45.999	Data
49	69.540	6.527	57.019	48.756	46.000	Data
49	70.483	6.485	57.011	48.753	45.999	Data
50	69.540	6.527	57.019	48.756	46.000	Data
50	70.483	6.485	57.011	48.753	45.999	Data
51	69.540	6.527	57.019	48.756	46.000	Data
51	70.483	6.485	57.011	48.753	45.999	Data
52.5	69.791	6.534	57.056	48.755	46.003	Data
52.5	69.233	6.571	57.053	48.755	46.003	Data
54	68.234	6.540	57.015	48.745	45.989	Data
54	68.657	6.504	57.005	48.744	45.989	Data
55	68.234	6.540	57.015	48.745	45.989	Data
55	68.657	6.504	57.005	48.744	45.989	Data
56	68.234	6.540	57.015	48.745	45.989	Data
56	68.657	6.504	57.005	48.744	45.989	Data
57	68.234	6.540	57.015	48.745	45.989	Data
57	68.657	6.504	57.005	48.744	45.989	Data
58.5	69.233	6.571	57.053	48.755	46.003	Data
58.5	69.791	6.534	57.056	48.755	46.003	Data
60.5	68.859	6.463	57.041	48.756	45.987	Data
60.5	68.548	6.472	57.038	48.754	45.987	Data
61.75	68.859	6.463	57.041	48.756	45.987	Data
61.75	68.548	6.472	57.038	48.754	45.987	Data
63	68.859	6.463	57.041	48.756	45.987	Data
63	68.548	6.472	57.038	48.754	45.987	Data
64	68.859	6.463	57.041	48.756	45.987	Data
64	68.548	6.472	57.038	48.754	45.987	Data

Table 28: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.932	6.517	57.053	49.758	46.003	Data
8	69.698	6.546	57.048	49.756	46.003	Data
30	69.114	6.542	57.018	49.756	46.000	Data
30	70.187	6.528	57.000	49.741	45.990	Data
30	68.741	6.542	57.039	49.746	45.987	Data
30	69.515	6.453	57.039	49.747	45.987	Data
30	68.878	6.503	57.008	49.74	45.989	Data
30	69.575	6.544	57.004	49.743	45.990	Data
30	68.932	6.517	57.053	49.758	46.003	Data
30	71.054	6.553	57.016	49.755	46.000	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.955	6.523	57.009	49.741	45.989	Data
30	69.698	6.546	57.048	49.756	46.003	Data
42	70.187	6.528	57.000	49.741	45.990	Data
42	69.575	6.544	57.004	49.743	45.990	Data
43	70.187	6.528	57.000	49.741	45.990	Data
43	69.575	6.544	57.004	49.743	45.990	Data
44	70.187	6.528	57.000	49.741	45.990	Data
44	69.575	6.544	57.004	49.743	45.990	Data
45	70.187	6.528	57.000	49.741	45.990	Data
45	69.575	6.544	57.004	49.743	45.990	Data
46.5	68.932	6.517	57.053	49.758	46.003	Data
46.5	69.698	6.546	57.048	49.756	46.003	Data
48	69.114	6.542	57.018	49.756	46.000	Data
48	71.054	6.553	57.016	49.755	46.000	Data
49	71.054	6.553	57.016	49.755	46.000	Data
49	69.114	6.542	57.018	49.756	46.000	Data
50	71.054	6.553	57.016	49.755	46.000	Data
50	69.114	6.542	57.018	49.756	46.000	Data
51	71.054	6.553	57.016	49.755	46.000	Data
51	69.114	6.542	57.018	49.756	46.000	Data
52.5	68.932	6.517	57.053	49.758	46.003	Data
52.5	69.698	6.546	57.048	49.756	46.003	Data
54	68.955	6.523	57.009	49.741	45.989	Data
54	68.878	6.503	57.008	49.74	45.989	Data
55	68.955	6.523	57.009	49.741	45.989	Data
55	68.878	6.503	57.008	49.74	45.989	Data
56	68.955	6.523	57.009	49.741	45.989	Data
56	68.878	6.503	57.008	49.74	45.989	Data
57	68.955	6.523	57.009	49.741	45.989	Data
57	68.878	6.503	57.008	49.74	45.989	Data
58.5	68.932	6.517	57.053	49.758	46.003	Data
58.5	69.698	6.546	57.048	49.756	46.003	Data
60.5	68.741	6.542	57.039	49.746	45.987	Data
60.5	69.515	6.453	57.039	49.747	45.987	Data
61.75	68.741	6.542	57.039	49.746	45.987	Data
61.75	69.515	6.453	57.039	49.747	45.987	Data
63	68.741	6.542	57.039	49.746	45.987	Data
63	69.515	6.453	57.039	49.747	45.987	Data
64	68.741	6.542	57.039	49.746	45.987	Data
64	69.515	6.453	57.039	49.747	45.987	Data

Table 29: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=49.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.556	6.534	57.042	50.754	46.002	Data
8	69.155	6.519	57.046	50.753	46.003	Data
30	69.143	6.427	57.005	50.746	45.988	Data
30	70.111	6.528	57.022	50.749	46.000	Data
30	69.556	6.534	57.042	50.754	46.002	Data
30	70.234	6.460	57.009	50.739	45.990	Data
30	69.790	6.515	57.015	50.749	46.000	Data
30	70.413	6.469	57.011	50.738	45.990	Data
30	69.143	6.536	57.033	50.754	45.987	Data
30	69.155	6.519	57.046	50.753	46.003	Data
30	68.603	6.546	57.003	50.747	45.988	Data
30	69.832	6.456	57.041	50.757	45.988	Data
42	70.234	6.460	57.009	50.739	45.990	Data
42	70.413	6.469	57.011	50.738	45.990	Data
43	70.413	6.469	57.011	50.738	45.990	Data
43	70.234	6.460	57.009	50.739	45.990	Data
44	70.413	6.469	57.011	50.738	45.990	Data
44	70.234	6.460	57.009	50.739	45.990	Data
45	70.413	6.469	57.011	50.738	45.990	Data
45	70.234	6.460	57.009	50.739	45.990	Data
46.5	69.155	6.519	57.046	50.753	46.003	Data
46.5	69.556	6.534	57.042	50.754	46.002	Data
48	70.111	6.528	57.022	50.749	46.000	Data
48	69.790	6.515	57.015	50.749	46.000	Data
49	70.111	6.528	57.022	50.749	46.000	Data
49	69.790	6.515	57.015	50.749	46.000	Data
50	70.111	6.528	57.022	50.749	46.000	Data
50	69.790	6.515	57.015	50.749	46.000	Data
51	70.111	6.528	57.022	50.749	46.000	Data
51	69.790	6.515	57.015	50.749	46.000	Data
52.5	69.155	6.519	57.046	50.753	46.003	Data
52.5	69.556	6.534	57.042	50.754	46.002	Data
54	68.603	6.546	57.003	50.747	45.988	Data
54	69.143	6.427	57.005	50.746	45.988	Data
55	68.603	6.546	57.003	50.747	45.988	Data
55	69.143	6.427	57.005	50.746	45.988	Data
56	68.603	6.546	57.003	50.747	45.988	Data
56	69.143	6.427	57.005	50.746	45.988	Data
57	68.603	6.546	57.003	50.747	45.988	Data
57	69.143	6.427	57.005	50.746	45.988	Data
58.5	69.556	6.534	57.042	50.754	46.002	Data
58.5	69.155	6.519	57.046	50.753	46.003	Data
60.5	69.832	6.456	57.041	50.757	45.988	Data
60.5	69.143	6.536	57.033	50.754	45.987	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.832	6.456	57.041	50.757	45.988	Data
61.75	69.143	6.536	57.033	50.754	45.987	Data
63	69.832	6.456	57.041	50.757	45.988	Data
63	69.143	6.536	57.033	50.754	45.987	Data
64	69.143	6.536	57.033	50.754	45.987	Data
64	69.832	6.456	57.041	50.757	45.988	Data

Table 30: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.024	6.544	57.028	51.751	46.002	Data
8	69.169	6.499	57.037	51.748	46.002	Data
30	68.212	6.526	56.992	51.752	45.988	Data
30	70.024	6.544	57.028	51.751	46.002	Data
30	70.640	6.488	57.015	51.75	45.999	Data
30	70.434	6.468	57.003	51.752	45.990	Data
30	69.432	6.483	57.036	51.756	45.986	Data
30	69.396	6.517	57.033	51.757	45.987	Data
30	70.416	6.502	57.010	51.753	45.990	Data
30	68.951	6.517	56.999	51.751	45.988	Data
30	69.169	6.499	57.037	51.748	46.002	Data
30	69.242	6.493	57.028	51.751	45.999	Data
42	70.434	6.468	57.003	51.752	45.990	Data
42	70.416	6.502	57.010	51.753	45.990	Data
43	70.434	6.468	57.003	51.752	45.990	Data
43	70.416	6.502	57.010	51.753	45.990	Data
44	70.434	6.468	57.003	51.752	45.990	Data
44	70.416	6.502	57.010	51.753	45.990	Data
45	70.434	6.468	57.003	51.752	45.990	Data
45	70.416	6.502	57.010	51.753	45.990	Data
46.5	70.024	6.544	57.028	51.751	46.002	Data
46.5	69.169	6.499	57.037	51.748	46.002	Data
48	70.640	6.488	57.015	51.75	45.999	Data
48	69.242	6.493	57.028	51.751	45.999	Data
49	70.640	6.488	57.015	51.75	45.999	Data
49	69.242	6.493	57.028	51.751	45.999	Data
50	70.640	6.488	57.015	51.75	45.999	Data
50	69.242	6.493	57.028	51.751	45.999	Data
51	70.640	6.488	57.015	51.75	45.999	Data
51	69.242	6.493	57.028	51.751	45.999	Data
52.5	69.169	6.499	57.037	51.748	46.002	Data
52.5	70.024	6.544	57.028	51.751	46.002	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	68.212	6.526	56.992	51.752	45.988	Data
54	68.951	6.517	56.999	51.751	45.988	Data
55	68.212	6.526	56.992	51.752	45.988	Data
55	68.951	6.517	56.999	51.751	45.988	Data
56	68.212	6.526	56.992	51.752	45.988	Data
56	68.951	6.517	56.999	51.751	45.988	Data
57	68.212	6.526	56.992	51.752	45.988	Data
57	68.951	6.517	56.999	51.751	45.988	Data
58.5	69.169	6.499	57.037	51.748	46.002	Data
58.5	70.024	6.544	57.028	51.751	46.002	Data
60.5	69.432	6.483	57.036	51.756	45.986	Data
60.5	69.396	6.517	57.033	51.757	45.987	Data
61.75	69.432	6.483	57.036	51.756	45.986	Data
61.75	69.396	6.517	57.033	51.757	45.987	Data
63	69.432	6.483	57.036	51.756	45.986	Data
63	69.396	6.517	57.033	51.757	45.987	Data
64	69.396	6.517	57.033	51.757	45.987	Data
64	69.432	6.483	57.036	51.756	45.986	Data

Table 31: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=51.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.157	6.505	57.028	52.749	46.002	Data
8	69.132	6.541	57.045	52.749	45.996	Data
8	68.943	6.534	57.050	52.75	45.996	Data
8	70.038	6.548	57.028	52.749	46.002	Data
30	69.753	6.526	57.062	52.747	46.011	Data
30	70.521	6.538	57.021	52.746	45.999	Data
30	70.465	6.567	57.006	52.741	46.001	Data
30	70.908	6.502	57.005	52.75	45.989	Data
30	69.855	6.524	57.066	52.746	46.011	Data
30	68.873	6.515	57.006	52.745	46.021	Data
30	69.407	6.487	57.005	52.749	45.988	Data
30	70.157	6.505	57.028	52.749	46.002	Data
30	69.230	6.535	56.997	52.751	45.989	Data
30	68.791	6.517	57.007	52.745	46.021	Data
30	69.410	6.511	57.035	52.75	45.987	Data
30	68.943	6.534	57.050	52.75	45.996	Data
30	69.854	6.516	57.039	52.75	45.986	Data
30	70.770	6.574	57.011	52.751	45.999	Data
30	69.744	6.486	57.007	52.74	46.001	Data
30	69.132	6.541	57.045	52.749	45.996	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.169	6.494	57.005	52.75	46.000	Data
30	70.450	6.486	57.015	52.747	45.999	Data
30	70.038	6.548	57.028	52.749	46.002	Data
30	70.931	6.495	57.009	52.749	45.990	Data
42	70.908	6.502	57.005	52.75	45.989	Data
42	70.465	6.567	57.006	52.741	46.001	Data
42	70.931	6.495	57.009	52.749	45.990	Data
42	69.744	6.486	57.007	52.74	46.001	Data
43	70.908	6.502	57.005	52.75	45.989	Data
43	70.465	6.567	57.006	52.741	46.001	Data
43	70.931	6.495	57.009	52.749	45.990	Data
43	69.744	6.486	57.007	52.74	46.001	Data
44	70.908	6.502	57.005	52.75	45.989	Data
44	70.465	6.567	57.006	52.741	46.001	Data
44	70.931	6.495	57.009	52.749	45.990	Data
44	69.744	6.486	57.007	52.74	46.001	Data
45	70.908	6.502	57.005	52.75	45.989	Data
45	70.465	6.567	57.006	52.741	46.001	Data
45	70.931	6.495	57.009	52.749	45.990	Data
45	69.744	6.486	57.007	52.74	46.001	Data
46.5	70.157	6.505	57.028	52.749	46.002	Data
46.5	68.943	6.534	57.050	52.75	45.996	Data
46.5	69.132	6.541	57.045	52.749	45.996	Data
46.5	70.038	6.548	57.028	52.749	46.002	Data
48	70.521	6.538	57.021	52.746	45.999	Data
48	69.753	6.526	57.062	52.747	46.011	Data
48	69.855	6.524	57.066	52.746	46.011	Data
48	70.450	6.486	57.015	52.747	45.999	Data
49	70.521	6.538	57.021	52.746	45.999	Data
49	69.753	6.526	57.062	52.747	46.011	Data
49	69.855	6.524	57.066	52.746	46.011	Data
49	70.450	6.486	57.015	52.747	45.999	Data
50	70.521	6.538	57.021	52.746	45.999	Data
50	69.753	6.526	57.062	52.747	46.011	Data
50	69.855	6.524	57.066	52.746	46.011	Data
50	70.450	6.486	57.015	52.747	45.999	Data
51	69.855	6.524	57.066	52.746	46.011	Data
51	70.521	6.538	57.021	52.746	45.999	Data
51	69.753	6.526	57.062	52.747	46.011	Data
51	70.450	6.486	57.015	52.747	45.999	Data
52.5	70.157	6.505	57.028	52.749	46.002	Data
52.5	68.943	6.534	57.050	52.75	45.996	Data
52.5	70.038	6.548	57.028	52.749	46.002	Data
52.5	69.132	6.541	57.045	52.749	45.996	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.407	6.487	57.005	52.749	45.988	Data
54	68.873	6.515	57.006	52.745	46.021	Data
54	69.230	6.535	56.997	52.751	45.989	Data
54	68.791	6.517	57.007	52.745	46.021	Data
55	69.407	6.487	57.005	52.749	45.988	Data
55	68.873	6.515	57.006	52.745	46.021	Data
55	69.230	6.535	56.997	52.751	45.989	Data
55	68.791	6.517	57.007	52.745	46.021	Data
56	69.407	6.487	57.005	52.749	45.988	Data
56	68.873	6.515	57.006	52.745	46.021	Data
56	69.230	6.535	56.997	52.751	45.989	Data
56	68.791	6.517	57.007	52.745	46.021	Data
57	69.407	6.487	57.005	52.749	45.988	Data
57	69.230	6.535	56.997	52.751	45.989	Data
57	68.873	6.515	57.006	52.745	46.021	Data
57	68.791	6.517	57.007	52.745	46.021	Data
58.5	68.943	6.534	57.050	52.75	45.996	Data
58.5	70.157	6.505	57.028	52.749	46.002	Data
58.5	70.038	6.548	57.028	52.749	46.002	Data
58.5	69.132	6.541	57.045	52.749	45.996	Data
60.5	69.854	6.516	57.039	52.75	45.986	Data
60.5	70.770	6.574	57.011	52.751	45.999	Data
60.5	70.169	6.494	57.005	52.75	46.000	Data
60.5	69.410	6.511	57.035	52.75	45.987	Data
61.75	69.854	6.516	57.039	52.75	45.986	Data
61.75	70.770	6.574	57.011	52.751	45.999	Data
61.75	70.169	6.494	57.005	52.75	46.000	Data
61.75	69.410	6.511	57.035	52.75	45.987	Data
63	69.854	6.516	57.039	52.75	45.986	Data
63	70.169	6.494	57.005	52.75	46.000	Data
63	69.410	6.511	57.035	52.75	45.987	Data
63	70.770	6.574	57.011	52.751	45.999	Data
64	69.854	6.516	57.039	52.75	45.986	Data
64	69.410	6.511	57.035	52.75	45.987	Data
64	70.169	6.494	57.005	52.75	46.000	Data
64	70.770	6.574	57.011	52.751	45.999	Data

Table 32: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.052	6.534	57.037	53.746	46.002	Data
8	69.989	6.556	57.035	53.746	46.002	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.495	6.515	57.016	53.74	45.999	Data
30	70.551	6.526	57.019	53.74	45.999	Data
30	70.074	6.510	57.034	53.748	45.986	Data
30	69.989	6.556	57.035	53.746	46.002	Data
30	69.431	6.566	56.995	53.742	45.989	Data
30	70.052	6.534	57.037	53.746	46.002	Data
30	71.321	6.472	57.003	53.741	45.989	Data
30	71.057	6.555	57.006	53.741	45.990	Data
30	69.542	6.479	56.998	53.742	45.989	Data
30	69.576	6.511	57.037	53.747	45.987	Data
42	71.057	6.555	57.006	53.741	45.990	Data
42	71.321	6.472	57.003	53.741	45.989	Data
43	71.057	6.555	57.006	53.741	45.990	Data
43	71.321	6.472	57.003	53.741	45.989	Data
44	71.057	6.555	57.006	53.741	45.990	Data
44	71.321	6.472	57.003	53.741	45.989	Data
45	71.057	6.555	57.006	53.741	45.990	Data
45	71.321	6.472	57.003	53.741	45.989	Data
46.5	69.989	6.556	57.035	53.746	46.002	Data
46.5	70.052	6.534	57.037	53.746	46.002	Data
48	70.495	6.515	57.016	53.74	45.999	Data
48	70.551	6.526	57.019	53.74	45.999	Data
49	70.495	6.515	57.016	53.74	45.999	Data
49	70.551	6.526	57.019	53.74	45.999	Data
50	70.495	6.515	57.016	53.74	45.999	Data
50	70.551	6.526	57.019	53.74	45.999	Data
51	70.495	6.515	57.016	53.74	45.999	Data
51	70.551	6.526	57.019	53.74	45.999	Data
52.5	69.989	6.556	57.035	53.746	46.002	Data
52.5	70.052	6.534	57.037	53.746	46.002	Data
54	69.542	6.479	56.998	53.742	45.989	Data
54	69.431	6.566	56.995	53.742	45.989	Data
55	69.542	6.479	56.998	53.742	45.989	Data
55	69.431	6.566	56.995	53.742	45.989	Data
56	69.542	6.479	56.998	53.742	45.989	Data
56	69.431	6.566	56.995	53.742	45.989	Data
57	69.542	6.479	56.998	53.742	45.989	Data
57	69.431	6.566	56.995	53.742	45.989	Data
58.5	69.989	6.556	57.035	53.746	46.002	Data
58.5	70.052	6.534	57.037	53.746	46.002	Data
60.5	70.074	6.510	57.034	53.748	45.986	Data
60.5	69.576	6.511	57.037	53.747	45.987	Data
61.75	70.074	6.510	57.034	53.748	45.986	Data
61.75	69.576	6.511	57.037	53.747	45.987	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	70.074	6.510	57.034	53.748	45.986	Data
63	69.576	6.511	57.037	53.747	45.987	Data
64	70.074	6.510	57.034	53.748	45.986	Data
64	69.576	6.511	57.037	53.747	45.987	Data

Table 33: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=53.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.066	6.535	57.038	54.743	46.001	Data
8	68.325	6.528	57.028	54.742	46.001	Data
30	69.066	6.535	57.038	54.743	46.001	Data
30	71.335	6.511	57.006	54.748	45.990	Data
30	68.325	6.528	57.028	54.742	46.001	Data
30	69.720	6.479	57.029	54.746	45.987	Data
30	69.955	6.538	57.031	54.744	45.987	Data
30	70.775	6.473	57.025	54.745	45.999	Data
30	69.575	6.482	57.003	54.741	45.988	Data
30	70.167	6.509	57.021	54.746	45.999	Data
30	69.450	6.483	57.002	54.74	45.989	Data
30	71.022	6.444	57.009	54.75	45.989	Data
42	71.335	6.511	57.006	54.748	45.990	Data
42	71.022	6.444	57.009	54.75	45.989	Data
43	71.335	6.511	57.006	54.748	45.990	Data
43	71.022	6.444	57.009	54.75	45.989	Data
44	71.335	6.511	57.006	54.748	45.990	Data
44	71.022	6.444	57.009	54.75	45.989	Data
45	71.335	6.511	57.006	54.748	45.990	Data
45	71.022	6.444	57.009	54.75	45.989	Data
46.5	68.325	6.528	57.028	54.742	46.001	Data
46.5	69.066	6.535	57.038	54.743	46.001	Data
48	70.167	6.509	57.021	54.746	45.999	Data
48	70.775	6.473	57.025	54.745	45.999	Data
49	70.167	6.509	57.021	54.746	45.999	Data
49	70.775	6.473	57.025	54.745	45.999	Data
50	70.167	6.509	57.021	54.746	45.999	Data
50	70.775	6.473	57.025	54.745	45.999	Data
51	70.167	6.509	57.021	54.746	45.999	Data
51	70.775	6.473	57.025	54.745	45.999	Data
52.5	68.325	6.528	57.028	54.742	46.001	Data
52.5	69.066	6.535	57.038	54.743	46.001	Data
54	69.575	6.482	57.003	54.741	45.988	Data
54	69.450	6.483	57.002	54.74	45.989	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	69.575	6.482	57.003	54.741	45.988	Data
55	69.450	6.483	57.002	54.74	45.989	Data
56	69.575	6.482	57.003	54.741	45.988	Data
56	69.450	6.483	57.002	54.74	45.989	Data
57	69.575	6.482	57.003	54.741	45.988	Data
57	69.450	6.483	57.002	54.74	45.989	Data
58.5	69.066	6.535	57.038	54.743	46.001	Data
58.5	68.325	6.528	57.028	54.742	46.001	Data
60.5	69.955	6.538	57.031	54.744	45.987	Data
60.5	69.720	6.479	57.029	54.746	45.987	Data
61.75	69.955	6.538	57.031	54.744	45.987	Data
61.75	69.720	6.479	57.029	54.746	45.987	Data
63	69.955	6.538	57.031	54.744	45.987	Data
63	69.720	6.479	57.029	54.746	45.987	Data
64	69.955	6.538	57.031	54.744	45.987	Data
64	69.720	6.479	57.029	54.746	45.987	Data

Table 34: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.786	6.568	57.032	55.744	46.001	Data
8	68.510	6.568	57.032	55.744	46.001	Data
30	71.013	6.456	57.015	55.739	45.999	Data
30	71.895	6.522	57.009	55.746	45.989	Data
30	68.786	6.568	57.032	55.744	46.001	Data
30	70.993	6.518	57.003	55.747	45.989	Data
30	68.870	6.566	57.006	55.738	45.988	Data
30	68.945	6.484	56.997	55.738	45.989	Data
30	69.535	6.468	57.037	55.747	45.987	Data
30	68.510	6.568	57.032	55.744	46.001	Data
30	70.509	6.481	57.020	55.74	45.999	Data
30	69.211	6.565	57.034	55.745	45.986	Data
42	70.993	6.518	57.003	55.747	45.989	Data
42	71.895	6.522	57.009	55.746	45.989	Data
43	70.993	6.518	57.003	55.747	45.989	Data
43	71.895	6.522	57.009	55.746	45.989	Data
44	70.993	6.518	57.003	55.747	45.989	Data
44	71.895	6.522	57.009	55.746	45.989	Data
45	70.993	6.518	57.003	55.747	45.989	Data
45	71.895	6.522	57.009	55.746	45.989	Data
46.5	68.786	6.568	57.032	55.744	46.001	Data
46.5	68.510	6.568	57.032	55.744	46.001	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	71.013	6.456	57.015	55.739	45.999	Data
48	70.509	6.481	57.020	55.74	45.999	Data
49	71.013	6.456	57.015	55.739	45.999	Data
49	70.509	6.481	57.020	55.74	45.999	Data
50	71.013	6.456	57.015	55.739	45.999	Data
50	70.509	6.481	57.020	55.74	45.999	Data
51	71.013	6.456	57.015	55.739	45.999	Data
51	70.509	6.481	57.020	55.74	45.999	Data
52.5	68.786	6.568	57.032	55.744	46.001	Data
52.5	68.510	6.568	57.032	55.744	46.001	Data
54	68.870	6.566	57.006	55.738	45.988	Data
54	68.945	6.484	56.997	55.738	45.989	Data
55	68.870	6.566	57.006	55.738	45.988	Data
55	68.945	6.484	56.997	55.738	45.989	Data
56	68.945	6.484	56.997	55.738	45.989	Data
56	68.870	6.566	57.006	55.738	45.988	Data
57	68.945	6.484	56.997	55.738	45.989	Data
57	68.870	6.566	57.006	55.738	45.988	Data
58.5	68.786	6.568	57.032	55.744	46.001	Data
58.5	68.510	6.568	57.032	55.744	46.001	Data
60.5	69.211	6.565	57.034	55.745	45.986	Data
60.5	69.535	6.468	57.037	55.747	45.987	Data
61.75	69.211	6.565	57.034	55.745	45.986	Data
61.75	69.535	6.468	57.037	55.747	45.987	Data
63	69.211	6.565	57.034	55.745	45.986	Data
63	69.535	6.468	57.037	55.747	45.987	Data
64	69.211	6.565	57.034	55.745	45.986	Data
64	69.535	6.468	57.037	55.747	45.987	Data

Table 35: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=55.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.378	6.543	57.026	56.753	46.001	Data
8	68.381	6.535	57.031	56.752	46.001	Data
30	71.405	6.540	57.022	56.747	45.999	Data
30	69.452	6.493	57.033	56.747	45.987	Data
30	71.371	6.501	57.000	56.745	45.989	Data
30	69.378	6.543	57.026	56.753	46.001	Data
30	69.148	6.460	57.010	56.748	45.989	Data
30	69.921	6.537	57.035	56.746	45.987	Data
30	70.531	6.557	57.015	56.745	45.999	Data
30	71.084	6.467	57.003	56.744	45.989	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.381	6.535	57.031	56.752	46.001	Data
30	69.384	6.488	57.006	56.747	45.989	Data
42	71.371	6.501	57.000	56.745	45.989	Data
42	71.084	6.467	57.003	56.744	45.989	Data
43	71.084	6.467	57.003	56.744	45.989	Data
43	71.371	6.501	57.000	56.745	45.989	Data
44	71.371	6.501	57.000	56.745	45.989	Data
44	71.084	6.467	57.003	56.744	45.989	Data
45	71.084	6.467	57.003	56.744	45.989	Data
45	71.371	6.501	57.000	56.745	45.989	Data
46.5	68.381	6.535	57.031	56.752	46.001	Data
46.5	69.378	6.543	57.026	56.753	46.001	Data
48	71.405	6.540	57.022	56.747	45.999	Data
48	70.531	6.557	57.015	56.745	45.999	Data
49	71.405	6.540	57.022	56.747	45.999	Data
49	70.531	6.557	57.015	56.745	45.999	Data
50	71.405	6.540	57.022	56.747	45.999	Data
50	70.531	6.557	57.015	56.745	45.999	Data
51	71.405	6.540	57.022	56.747	45.999	Data
51	70.531	6.557	57.015	56.745	45.999	Data
52.5	68.381	6.535	57.031	56.752	46.001	Data
52.5	69.378	6.543	57.026	56.753	46.001	Data
54	69.384	6.488	57.006	56.747	45.989	Data
54	69.148	6.460	57.010	56.748	45.989	Data
55	69.384	6.488	57.006	56.747	45.989	Data
55	69.148	6.460	57.010	56.748	45.989	Data
56	69.384	6.488	57.006	56.747	45.989	Data
56	69.148	6.460	57.010	56.748	45.989	Data
57	69.384	6.488	57.006	56.747	45.989	Data
57	69.148	6.460	57.010	56.748	45.989	Data
58.5	69.378	6.543	57.026	56.753	46.001	Data
58.5	68.381	6.535	57.031	56.752	46.001	Data
60.5	69.452	6.493	57.033	56.747	45.987	Data
60.5	69.921	6.537	57.035	56.746	45.987	Data
61.75	69.452	6.493	57.033	56.747	45.987	Data
61.75	69.921	6.537	57.035	56.746	45.987	Data
63	69.452	6.493	57.033	56.747	45.987	Data
63	69.921	6.537	57.035	56.746	45.987	Data
64	69.452	6.493	57.033	56.747	45.987	Data
64	69.921	6.537	57.035	56.746	45.987	Data

Table 36: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.868	6.514	57.030	57.741	46.001	Data
8	68.792	6.529	57.034	57.739	46.001	Data
30	70.178	6.502	57.035	57.741	45.987	Data
30	68.766	6.550	57.014	57.758	45.989	Data
30	70.339	6.565	57.027	57.764	45.999	Data
30	68.868	6.514	57.030	57.741	46.001	Data
30	70.362	6.501	57.035	57.743	45.988	Data
30	69.233	6.490	57.018	57.759	45.990	Data
30	71.483	6.529	57.026	57.764	45.999	Data
30	68.792	6.529	57.034	57.739	46.001	Data
30	71.333	6.531	57.003	57.749	45.989	Data
30	71.944	6.539	57.001	57.75	45.988	Data
42	71.333	6.531	57.003	57.749	45.989	Data
42	71.944	6.539	57.001	57.75	45.988	Data
43	71.333	6.531	57.003	57.749	45.989	Data
43	71.944	6.539	57.001	57.75	45.988	Data
44	71.333	6.531	57.003	57.749	45.989	Data
44	71.944	6.539	57.001	57.75	45.988	Data
45	71.333	6.531	57.003	57.749	45.989	Data
45	71.944	6.539	57.001	57.75	45.988	Data
46.5	68.792	6.529	57.034	57.739	46.001	Data
46.5	68.868	6.514	57.030	57.741	46.001	Data
48	71.483	6.529	57.026	57.764	45.999	Data
48	70.339	6.565	57.027	57.764	45.999	Data
49	71.483	6.529	57.026	57.764	45.999	Data
49	70.339	6.565	57.027	57.764	45.999	Data
50	71.483	6.529	57.026	57.764	45.999	Data
50	70.339	6.565	57.027	57.764	45.999	Data
51	71.483	6.529	57.026	57.764	45.999	Data
51	70.339	6.565	57.027	57.764	45.999	Data
52.5	68.792	6.529	57.034	57.739	46.001	Data
52.5	68.868	6.514	57.030	57.741	46.001	Data
54	69.233	6.490	57.018	57.759	45.990	Data
54	68.766	6.550	57.014	57.758	45.989	Data
55	69.233	6.490	57.018	57.759	45.990	Data
55	68.766	6.550	57.014	57.758	45.989	Data
56	69.233	6.490	57.018	57.759	45.990	Data
56	68.766	6.550	57.014	57.758	45.989	Data
57	69.233	6.490	57.018	57.759	45.990	Data
57	68.766	6.550	57.014	57.758	45.989	Data
58.5	68.792	6.529	57.034	57.739	46.001	Data
58.5	68.868	6.514	57.030	57.741	46.001	Data
60.5	70.178	6.502	57.035	57.741	45.987	Data
60.5	70.362	6.501	57.035	57.743	45.988	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	70.178	6.502	57.035	57.741	45.987	Data
61.75	70.362	6.501	57.035	57.743	45.988	Data
63	70.178	6.502	57.035	57.741	45.987	Data
63	70.362	6.501	57.035	57.743	45.988	Data
64	70.178	6.502	57.035	57.741	45.987	Data
64	70.362	6.501	57.035	57.743	45.988	Data

Table 37: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=57.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.780	6.504	57.026	58.751	46.001	Data
8	68.710	6.528	57.036	58.75	46.001	Data
8	69.910	6.611	56.978	58.741	45.973	Data
8	69.872	6.527	56.973	58.742	45.973	Data
30	69.910	6.611	56.978	58.741	45.973	Data
30	70.035	6.578	57.060	58.75	46.012	Data
30	69.948	6.485	57.017	58.742	45.995	Data
30	69.044	6.516	57.020	58.76	45.990	Data
30	70.395	6.531	57.060	58.75	46.012	Data
30	69.872	6.527	56.973	58.742	45.973	Data
30	68.764	6.567	57.028	58.743	45.995	Data
30	68.710	6.528	57.036	58.75	46.001	Data
30	70.806	6.486	57.013	58.748	46.006	Data
30	71.165	6.561	57.020	58.756	45.998	Data
30	70.843	6.518	57.004	58.749	45.988	Data
30	69.011	6.484	57.017	58.758	45.990	Data
30	68.780	6.504	57.026	58.751	46.001	Data
30	70.294	6.509	57.027	58.755	45.998	Data
30	70.771	6.484	57.014	58.749	46.006	Data
30	69.996	6.496	57.039	58.755	45.988	Data
30	70.912	6.507	56.998	58.75	45.988	Data
30	70.311	6.547	57.035	58.755	45.988	Data
30	70.853	6.529	57.004	58.742	45.999	Data
30	69.919	6.611	57.000	58.744	45.999	Data
42	70.912	6.507	56.998	58.75	45.988	Data
42	70.806	6.486	57.013	58.748	46.006	Data
42	70.843	6.518	57.004	58.749	45.988	Data
42	70.771	6.484	57.014	58.749	46.006	Data
43	70.912	6.507	56.998	58.75	45.988	Data
43	70.806	6.486	57.013	58.748	46.006	Data
43	70.843	6.518	57.004	58.749	45.988	Data
43	70.771	6.484	57.014	58.749	46.006	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	70.912	6.507	56.998	58.75	45.988	Data
44	70.806	6.486	57.013	58.748	46.006	Data
44	70.843	6.518	57.004	58.749	45.988	Data
44	70.771	6.484	57.014	58.749	46.006	Data
45	70.912	6.507	56.998	58.75	45.988	Data
45	70.806	6.486	57.013	58.748	46.006	Data
45	70.843	6.518	57.004	58.749	45.988	Data
45	70.771	6.484	57.014	58.749	46.006	Data
46.5	69.872	6.527	56.973	58.742	45.973	Data
46.5	69.910	6.611	56.978	58.741	45.973	Data
46.5	68.710	6.528	57.036	58.75	46.001	Data
46.5	68.780	6.504	57.026	58.751	46.001	Data
48	70.035	6.578	57.060	58.75	46.012	Data
48	71.165	6.561	57.020	58.756	45.998	Data
48	70.294	6.509	57.027	58.755	45.998	Data
48	70.395	6.531	57.060	58.75	46.012	Data
49	70.035	6.578	57.060	58.75	46.012	Data
49	71.165	6.561	57.020	58.756	45.998	Data
49	70.294	6.509	57.027	58.755	45.998	Data
49	70.395	6.531	57.060	58.75	46.012	Data
50	70.035	6.578	57.060	58.75	46.012	Data
50	71.165	6.561	57.020	58.756	45.998	Data
50	70.294	6.509	57.027	58.755	45.998	Data
50	70.395	6.531	57.060	58.75	46.012	Data
51	71.165	6.561	57.020	58.756	45.998	Data
51	70.035	6.578	57.060	58.75	46.012	Data
51	70.294	6.509	57.027	58.755	45.998	Data
51	70.395	6.531	57.060	58.75	46.012	Data
52.5	68.710	6.528	57.036	58.75	46.001	Data
52.5	69.872	6.527	56.973	58.742	45.973	Data
52.5	69.910	6.611	56.978	58.741	45.973	Data
52.5	68.780	6.504	57.026	58.751	46.001	Data
54	69.948	6.485	57.017	58.742	45.995	Data
54	69.044	6.516	57.020	58.76	45.990	Data
54	69.011	6.484	57.017	58.758	45.990	Data
54	68.764	6.567	57.028	58.743	45.995	Data
55	69.948	6.485	57.017	58.742	45.995	Data
55	69.044	6.516	57.020	58.76	45.990	Data
55	69.011	6.484	57.017	58.758	45.990	Data
55	68.764	6.567	57.028	58.743	45.995	Data
56	69.948	6.485	57.017	58.742	45.995	Data
56	69.044	6.516	57.020	58.76	45.990	Data
56	69.011	6.484	57.017	58.758	45.990	Data
56	68.764	6.567	57.028	58.743	45.995	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	69.948	6.485	57.017	58.742	45.995	Data
57	69.044	6.516	57.020	58.76	45.990	Data
57	69.011	6.484	57.017	58.758	45.990	Data
57	68.764	6.567	57.028	58.743	45.995	Data
58.5	68.780	6.504	57.026	58.751	46.001	Data
58.5	68.710	6.528	57.036	58.75	46.001	Data
58.5	69.872	6.527	56.973	58.742	45.973	Data
58.5	69.910	6.611	56.978	58.741	45.973	Data
60.5	69.996	6.496	57.039	58.755	45.988	Data
60.5	69.919	6.611	57.000	58.744	45.999	Data
60.5	70.853	6.529	57.004	58.742	45.999	Data
60.5	70.311	6.547	57.035	58.755	45.988	Data
61.75	69.919	6.611	57.000	58.744	45.999	Data
61.75	69.996	6.496	57.039	58.755	45.988	Data
61.75	70.311	6.547	57.035	58.755	45.988	Data
61.75	70.853	6.529	57.004	58.742	45.999	Data
63	69.919	6.611	57.000	58.744	45.999	Data
63	69.996	6.496	57.039	58.755	45.988	Data
63	70.311	6.547	57.035	58.755	45.988	Data
63	70.853	6.529	57.004	58.742	45.999	Data
64	70.311	6.547	57.035	58.755	45.988	Data
64	69.996	6.496	57.039	58.755	45.988	Data
64	69.919	6.611	57.000	58.744	45.999	Data
64	70.853	6.529	57.004	58.742	45.999	Data

Table 38: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.300	6.507	57.030	59.759	46.002	Data
8	69.538	6.542	57.031	59.759	46.001	Data
30	69.538	6.542	57.031	59.759	46.001	Data
30	69.300	6.507	57.030	59.759	46.002	Data
30	70.734	6.527	57.040	59.75	45.988	Data
30	69.491	6.514	57.032	59.752	45.991	Data
30	70.903	6.513	57.036	59.749	45.988	Data
30	71.694	6.555	57.003	59.748	45.988	Data
30	71.310	6.494	57.020	59.755	45.998	Data
30	70.774	6.532	57.002	59.748	45.988	Data
30	68.760	6.518	57.029	59.755	45.991	Data
30	70.317	6.477	57.029	59.756	45.997	Data
42	71.694	6.555	57.003	59.748	45.988	Data
42	70.774	6.532	57.002	59.748	45.988	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	71.694	6.555	57.003	59.748	45.988	Data
43	70.774	6.532	57.002	59.748	45.988	Data
44	71.694	6.555	57.003	59.748	45.988	Data
44	70.774	6.532	57.002	59.748	45.988	Data
45	71.694	6.555	57.003	59.748	45.988	Data
45	70.774	6.532	57.002	59.748	45.988	Data
46.5	69.538	6.542	57.031	59.759	46.001	Data
46.5	69.300	6.507	57.030	59.759	46.002	Data
48	71.310	6.494	57.020	59.755	45.998	Data
48	70.317	6.477	57.029	59.756	45.997	Data
49	71.310	6.494	57.020	59.755	45.998	Data
49	70.317	6.477	57.029	59.756	45.997	Data
50	71.310	6.494	57.020	59.755	45.998	Data
50	70.317	6.477	57.029	59.756	45.997	Data
51	71.310	6.494	57.020	59.755	45.998	Data
51	70.317	6.477	57.029	59.756	45.997	Data
52.5	69.300	6.507	57.030	59.759	46.002	Data
52.5	69.538	6.542	57.031	59.759	46.001	Data
54	69.491	6.514	57.032	59.752	45.991	Data
54	68.760	6.518	57.029	59.755	45.991	Data
55	69.491	6.514	57.032	59.752	45.991	Data
55	68.760	6.518	57.029	59.755	45.991	Data
56	69.491	6.514	57.032	59.752	45.991	Data
56	68.760	6.518	57.029	59.755	45.991	Data
57	69.491	6.514	57.032	59.752	45.991	Data
57	68.760	6.518	57.029	59.755	45.991	Data
58.5	69.300	6.507	57.030	59.759	46.002	Data
58.5	69.538	6.542	57.031	59.759	46.001	Data
60.5	70.734	6.527	57.040	59.75	45.988	Data
60.5	70.903	6.513	57.036	59.749	45.988	Data
61.75	70.734	6.527	57.040	59.75	45.988	Data
61.75	70.903	6.513	57.036	59.749	45.988	Data
63	70.734	6.527	57.040	59.75	45.988	Data
63	70.903	6.513	57.036	59.749	45.988	Data
64	70.734	6.527	57.040	59.75	45.988	Data
64	70.903	6.513	57.036	59.749	45.988	Data

Table 39: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=59.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.799	6.564	57.027	60.765	46.002	Data
8	68.826	6.524	57.036	60.765	46.002	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.942	6.490	56.999	60.76	45.987	Data
30	70.549	6.496	57.031	60.757	45.989	Data
30	70.954	6.502	57.024	60.77	45.997	Data
30	70.549	6.527	57.031	60.757	45.989	Data
30	69.119	6.528	57.028	60.762	45.991	Data
30	70.648	6.533	57.004	60.759	45.987	Data
30	71.201	6.493	57.023	60.768	45.997	Data
30	68.826	6.524	57.036	60.765	46.002	Data
30	68.799	6.564	57.027	60.765	46.002	Data
30	69.026	6.491	57.022	60.763	45.992	Data
42	70.648	6.533	57.004	60.759	45.987	Data
42	70.942	6.490	56.999	60.76	45.987	Data
43	70.648	6.533	57.004	60.759	45.987	Data
43	70.942	6.490	56.999	60.76	45.987	Data
44	70.648	6.533	57.004	60.759	45.987	Data
44	70.942	6.490	56.999	60.76	45.987	Data
45	70.648	6.533	57.004	60.759	45.987	Data
45	70.942	6.490	56.999	60.76	45.987	Data
46.5	68.799	6.564	57.027	60.765	46.002	Data
46.5	68.826	6.524	57.036	60.765	46.002	Data
48	70.954	6.502	57.024	60.77	45.997	Data
48	71.201	6.493	57.023	60.768	45.997	Data
49	70.954	6.502	57.024	60.77	45.997	Data
49	71.201	6.493	57.023	60.768	45.997	Data
50	70.954	6.502	57.024	60.77	45.997	Data
50	71.201	6.493	57.023	60.768	45.997	Data
51	70.954	6.502	57.024	60.77	45.997	Data
51	71.201	6.493	57.023	60.768	45.997	Data
52.5	68.799	6.564	57.027	60.765	46.002	Data
52.5	68.826	6.524	57.036	60.765	46.002	Data
54	69.119	6.528	57.028	60.762	45.991	Data
54	69.026	6.491	57.022	60.763	45.992	Data
55	69.119	6.528	57.028	60.762	45.991	Data
55	69.026	6.491	57.022	60.763	45.992	Data
56	69.119	6.528	57.028	60.762	45.991	Data
56	69.026	6.491	57.022	60.763	45.992	Data
57	69.119	6.528	57.028	60.762	45.991	Data
57	69.026	6.491	57.022	60.763	45.992	Data
58.5	68.799	6.564	57.027	60.765	46.002	Data
58.5	68.826	6.524	57.036	60.765	46.002	Data
60.5	70.549	6.496	57.031	60.757	45.989	Data
60.5	70.549	6.527	57.031	60.757	45.989	Data
61.75	70.549	6.496	57.031	60.757	45.989	Data
61.75	70.549	6.527	57.031	60.757	45.989	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	70.549	6.496	57.031	60.757	45.989	Data
63	70.549	6.527	57.031	60.757	45.989	Data
64	70.549	6.496	57.031	60.757	45.989	Data
64	70.549	6.527	57.031	60.757	45.989	Data

Table 40: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=60.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=61.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.631	6.495	57.036	61.769	46.002	Data
8	69.165	6.522	57.034	61.768	46.002	Data
30	68.789	6.529	57.023	61.766	45.992	Data
30	68.558	6.475	57.023	61.766	45.992	Data
30	71.209	6.507	57.023	61.769	45.996	Data
30	68.631	6.495	57.036	61.769	46.002	Data
30	70.764	6.554	57.022	61.767	45.996	Data
30	70.213	6.453	57.030	61.757	45.990	Data
30	70.417	6.532	57.034	61.755	45.989	Data
30	69.165	6.522	57.034	61.768	46.002	Data
46.5	68.631	6.495	57.036	61.769	46.002	Data
46.5	69.165	6.522	57.034	61.768	46.002	Data
48	71.209	6.507	57.023	61.769	45.996	Data
48	70.764	6.554	57.022	61.767	45.996	Data
49	71.209	6.507	57.023	61.769	45.996	Data
49	70.764	6.554	57.022	61.767	45.996	Data
50	71.209	6.507	57.023	61.769	45.996	Data
50	70.764	6.554	57.022	61.767	45.996	Data
51	71.209	6.507	57.023	61.769	45.996	Data
51	70.764	6.554	57.022	61.767	45.996	Data
52.5	68.631	6.495	57.036	61.769	46.002	Data
52.5	69.165	6.522	57.034	61.768	46.002	Data
54	68.558	6.475	57.023	61.766	45.992	Data
54	68.789	6.529	57.023	61.766	45.992	Data
55	68.558	6.475	57.023	61.766	45.992	Data
55	68.789	6.529	57.023	61.766	45.992	Data
56	68.558	6.475	57.023	61.766	45.992	Data
56	68.789	6.529	57.023	61.766	45.992	Data
57	68.558	6.475	57.023	61.766	45.992	Data
57	68.789	6.529	57.023	61.766	45.992	Data
58.5	68.631	6.495	57.036	61.769	46.002	Data
58.5	69.165	6.522	57.034	61.768	46.002	Data
60.5	70.213	6.453	57.030	61.757	45.990	Data
60.5	70.417	6.532	57.034	61.755	45.989	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=61.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	70.213	6.453	57.030	61.757	45.990	Data
61.75	70.417	6.532	57.034	61.755	45.989	Data
63	70.213	6.453	57.030	61.757	45.990	Data
63	70.417	6.532	57.034	61.755	45.989	Data
64	70.213	6.453	57.030	61.757	45.990	Data
64	70.417	6.532	57.034	61.755	45.989	Data

Table 41: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=61.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=62.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.504	6.546	57.029	62.762	46.002	Data
8	69.231	6.558	57.033	62.763	46.002	Data
30	69.591	6.447	57.019	62.752	45.993	Data
30	69.605	6.507	57.023	62.751	45.993	Data
30	70.519	6.506	57.038	62.756	45.991	Data
30	70.700	6.468	57.018	62.775	45.996	Data
30	70.083	6.521	57.014	62.773	45.996	Data
30	69.231	6.558	57.033	62.763	46.002	Data
30	69.558	6.461	57.037	62.754	45.991	Data
30	69.504	6.546	57.029	62.762	46.002	Data
46.5	69.504	6.546	57.029	62.762	46.002	Data
46.5	69.231	6.558	57.033	62.763	46.002	Data
48	70.083	6.521	57.014	62.773	45.996	Data
48	70.700	6.468	57.018	62.775	45.996	Data
49	70.083	6.521	57.014	62.773	45.996	Data
49	70.700	6.468	57.018	62.775	45.996	Data
50	70.083	6.521	57.014	62.773	45.996	Data
50	70.700	6.468	57.018	62.775	45.996	Data
51	70.083	6.521	57.014	62.773	45.996	Data
51	70.700	6.468	57.018	62.775	45.996	Data
52.5	69.504	6.546	57.029	62.762	46.002	Data
52.5	69.231	6.558	57.033	62.763	46.002	Data
54	69.591	6.447	57.019	62.752	45.993	Data
54	69.605	6.507	57.023	62.751	45.993	Data
55	69.591	6.447	57.019	62.752	45.993	Data
55	69.605	6.507	57.023	62.751	45.993	Data
56	69.591	6.447	57.019	62.752	45.993	Data
56	69.605	6.507	57.023	62.751	45.993	Data
57	69.591	6.447	57.019	62.752	45.993	Data
57	69.605	6.507	57.023	62.751	45.993	Data
58.5	69.231	6.558	57.033	62.763	46.002	Data
58.5	69.504	6.546	57.029	62.762	46.002	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=62.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
60.5	69.558	6.461	57.037	62.754	45.991	Data
60.5	70.519	6.506	57.038	62.756	45.991	Data
61.75	69.558	6.461	57.037	62.754	45.991	Data
61.75	70.519	6.506	57.038	62.756	45.991	Data
63	69.558	6.461	57.037	62.754	45.991	Data
63	70.519	6.506	57.038	62.756	45.991	Data
64	69.558	6.461	57.037	62.754	45.991	Data
64	70.519	6.506	57.038	62.756	45.991	Data

Table 42: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=62.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.012	6.560	56.962	64.75	45.998	Data
8	70.681	6.512	56.960	64.75	45.998	Data
30	70.120	6.530	57.013	64.753	45.999	Data
30	70.737	6.554	57.043	64.755	45.999	Data
30	71.266	6.564	57.044	64.757	46.000	Data
30	70.726	6.537	57.001	64.751	45.998	Data
30	69.978	6.476	57.015	64.755	45.999	Data
30	71.012	6.560	56.962	64.75	45.998	Data
30	70.858	6.491	57.005	64.752	45.998	Data
30	70.701	6.516	57.006	64.756	45.993	Data
30	70.770	6.477	57.005	64.756	45.993	Data
30	70.681	6.512	56.960	64.75	45.998	Data
42	70.858	6.491	57.005	64.752	45.998	Data
42	70.726	6.537	57.001	64.751	45.998	Data
43	70.858	6.491	57.005	64.752	45.998	Data
43	70.726	6.537	57.001	64.751	45.998	Data
44	70.858	6.491	57.005	64.752	45.998	Data
44	70.726	6.537	57.001	64.751	45.998	Data
45	70.858	6.491	57.005	64.752	45.998	Data
45	70.726	6.537	57.001	64.751	45.998	Data
46.5	71.012	6.560	56.962	64.75	45.998	Data
46.5	70.681	6.512	56.960	64.75	45.998	Data
48	70.737	6.554	57.043	64.755	45.999	Data
48	71.266	6.564	57.044	64.757	46.000	Data
49	70.737	6.554	57.043	64.755	45.999	Data
49	71.266	6.564	57.044	64.757	46.000	Data
50	70.737	6.554	57.043	64.755	45.999	Data
50	71.266	6.564	57.044	64.757	46.000	Data
51	70.737	6.554	57.043	64.755	45.999	Data
51	71.266	6.564	57.044	64.757	46.000	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
52.5	71.012	6.560	56.962	64.75	45.998	Data
52.5	70.681	6.512	56.960	64.75	45.998	Data
54	70.120	6.530	57.013	64.753	45.999	Data
54	69.978	6.476	57.015	64.755	45.999	Data
55	70.120	6.530	57.013	64.753	45.999	Data
55	69.978	6.476	57.015	64.755	45.999	Data
56	70.120	6.530	57.013	64.753	45.999	Data
56	69.978	6.476	57.015	64.755	45.999	Data
57	70.120	6.530	57.013	64.753	45.999	Data
57	69.978	6.476	57.015	64.755	45.999	Data
58.5	71.012	6.560	56.962	64.75	45.998	Data
58.5	70.681	6.512	56.960	64.75	45.998	Data
60.5	70.701	6.516	57.006	64.756	45.993	Data
60.5	70.770	6.477	57.005	64.756	45.993	Data
61.75	70.701	6.516	57.006	64.756	45.993	Data
61.75	70.770	6.477	57.005	64.756	45.993	Data
63	70.701	6.516	57.006	64.756	45.993	Data
63	70.770	6.477	57.005	64.756	45.993	Data
64	70.701	6.516	57.006	64.756	45.993	Data
64	70.770	6.477	57.005	64.756	45.993	Data

Table 43: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA 4 — VG at span y=64.5 (in)

D.6. Horizontal VG vortex sweep at height z=44, q=70, α_{VG}=4, α_W=7, RO-tip

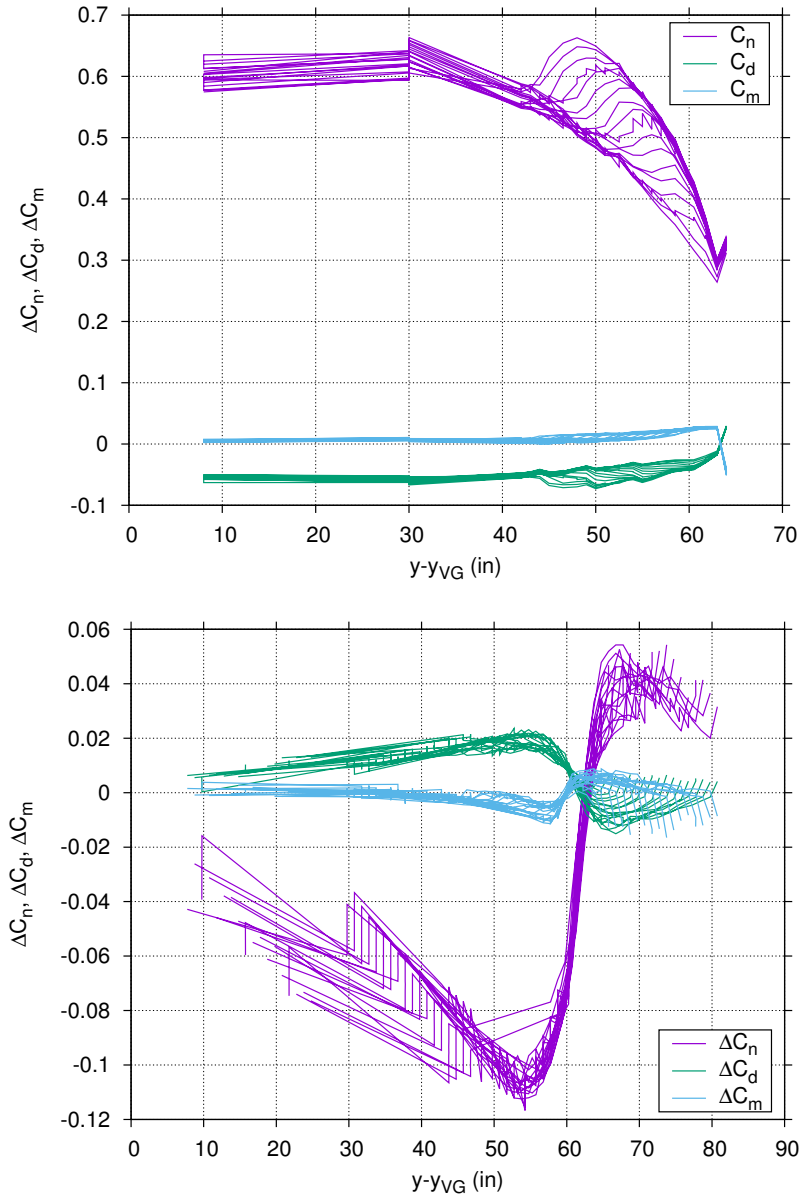

Figure 59. VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — (Data)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.582	6.555	56.990	43.757	44.005	Data
8	69.980	6.581	56.982	43.758	44.006	Data
30	69.061	6.505	57.002	43.755	43.998	Data
30	68.084	6.541	57.059	43.745	43.958	Data
30	68.797	6.498	57.053	43.747	43.958	Data
30	68.924	6.510	57.010	43.754	43.998	Data
30	69.582	6.555	56.990	43.757	44.005	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.511	6.562	56.989	43.751	43.999	Data
30	69.633	6.526	56.995	43.752	43.999	Data
30	69.806	6.476	56.981	43.748	44.001	Data
30	70.492	6.529	56.985	43.748	44.001	Data
30	69.980	6.581	56.982	43.758	44.006	Data
42	69.061	6.505	57.002	43.755	43.998	Data
42	68.924	6.510	57.010	43.754	43.998	Data
43	69.061	6.505	57.002	43.755	43.998	Data
43	68.924	6.510	57.010	43.754	43.998	Data
44	69.061	6.505	57.002	43.755	43.998	Data
44	68.924	6.510	57.010	43.754	43.998	Data
45	69.061	6.505	57.002	43.755	43.998	Data
45	68.924	6.510	57.010	43.754	43.998	Data
46.5	69.582	6.555	56.990	43.757	44.005	Data
46.5	69.980	6.581	56.982	43.758	44.006	Data
48	68.797	6.498	57.053	43.747	43.958	Data
48	68.084	6.541	57.059	43.745	43.958	Data
49	68.797	6.498	57.053	43.747	43.958	Data
49	68.084	6.541	57.059	43.745	43.958	Data
50	68.797	6.498	57.053	43.747	43.958	Data
50	68.084	6.541	57.059	43.745	43.958	Data
51	68.797	6.498	57.053	43.747	43.958	Data
51	68.084	6.541	57.059	43.745	43.958	Data
52.5	69.582	6.555	56.990	43.757	44.005	Data
52.5	69.980	6.581	56.982	43.758	44.006	Data
54	69.806	6.476	56.981	43.748	44.001	Data
54	70.492	6.529	56.985	43.748	44.001	Data
55	69.806	6.476	56.981	43.748	44.001	Data
55	70.492	6.529	56.985	43.748	44.001	Data
56	69.806	6.476	56.981	43.748	44.001	Data
56	70.492	6.529	56.985	43.748	44.001	Data
57	69.806	6.476	56.981	43.748	44.001	Data
57	70.492	6.529	56.985	43.748	44.001	Data
58.5	69.582	6.555	56.990	43.757	44.005	Data
58.5	69.980	6.581	56.982	43.758	44.006	Data
60.5	69.511	6.562	56.989	43.751	43.999	Data
60.5	69.633	6.526	56.995	43.752	43.999	Data
61.75	69.511	6.562	56.989	43.751	43.999	Data
61.75	69.633	6.526	56.995	43.752	43.999	Data
63	69.511	6.562	56.989	43.751	43.999	Data
63	69.633	6.526	56.995	43.752	43.999	Data
64	69.511	6.562	56.989	43.751	43.999	Data
64	69.633	6.526	56.995	43.752	43.999	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 44: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.124	6.587	56.989	44.748	44.005	Data
8	70.346	6.611	56.985	44.747	44.005	Data
30	69.684	6.474	56.984	44.741	44.001	Data
30	68.260	6.476	57.051	44.747	43.959	Data
30	70.194	6.488	56.987	44.741	44.000	Data
30	69.124	6.587	56.989	44.748	44.005	Data
30	68.814	6.519	57.004	44.74	43.998	Data
30	68.804	6.501	57.055	44.746	43.959	Data
30	70.501	6.514	56.998	44.742	43.998	Data
30	69.953	6.565	56.993	44.741	43.999	Data
30	68.917	6.543	57.002	44.742	43.997	Data
30	70.346	6.611	56.985	44.747	44.005	Data
42	68.814	6.519	57.004	44.74	43.998	Data
42	68.917	6.543	57.002	44.742	43.997	Data
43	68.814	6.519	57.004	44.74	43.998	Data
43	68.917	6.543	57.002	44.742	43.997	Data
44	68.814	6.519	57.004	44.74	43.998	Data
44	68.917	6.543	57.002	44.742	43.997	Data
45	68.814	6.519	57.004	44.74	43.998	Data
45	68.917	6.543	57.002	44.742	43.997	Data
46.5	69.124	6.587	56.989	44.748	44.005	Data
46.5	70.346	6.611	56.985	44.747	44.005	Data
48	68.260	6.476	57.051	44.747	43.959	Data
48	68.804	6.501	57.055	44.746	43.959	Data
49	68.260	6.476	57.051	44.747	43.959	Data
49	68.804	6.501	57.055	44.746	43.959	Data
50	68.260	6.476	57.051	44.747	43.959	Data
50	68.804	6.501	57.055	44.746	43.959	Data
51	68.260	6.476	57.051	44.747	43.959	Data
51	68.804	6.501	57.055	44.746	43.959	Data
52.5	69.124	6.587	56.989	44.748	44.005	Data
52.5	70.346	6.611	56.985	44.747	44.005	Data
54	70.194	6.488	56.987	44.741	44.000	Data
54	69.684	6.474	56.984	44.741	44.001	Data
55	70.194	6.488	56.987	44.741	44.000	Data
55	69.684	6.474	56.984	44.741	44.001	Data
56	70.194	6.488	56.987	44.741	44.000	Data
56	69.684	6.474	56.984	44.741	44.001	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	70.194	6.488	56.987	44.741	44.000	Data
57	69.684	6.474	56.984	44.741	44.001	Data
58.5	69.124	6.587	56.989	44.748	44.005	Data
58.5	70.346	6.611	56.985	44.747	44.005	Data
60.5	70.501	6.514	56.998	44.742	43.998	Data
60.5	69.953	6.565	56.993	44.741	43.999	Data
61.75	70.501	6.514	56.998	44.742	43.998	Data
61.75	69.953	6.565	56.993	44.741	43.999	Data
63	70.501	6.514	56.998	44.742	43.998	Data
63	69.953	6.565	56.993	44.741	43.999	Data
64	70.501	6.514	56.998	44.742	43.998	Data
64	69.953	6.565	56.993	44.741	43.999	Data

Table 45: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.753	6.584	56.991	45.746	44.005	Data
8	70.169	6.496	56.986	45.746	44.005	Data
30	70.204	6.499	56.991	45.742	44.000	Data
30	69.506	6.588	56.995	45.74	43.998	Data
30	69.447	6.505	57.005	45.748	43.998	Data
30	68.806	6.557	57.056	45.743	43.959	Data
30	68.285	6.506	57.059	45.74	43.958	Data
30	68.666	6.522	57.000	45.748	43.998	Data
30	70.622	6.510	56.988	45.741	44.000	Data
30	70.169	6.496	56.986	45.746	44.005	Data
30	69.605	6.587	57.001	45.741	43.998	Data
30	69.753	6.584	56.991	45.746	44.005	Data
42	69.447	6.505	57.005	45.748	43.998	Data
42	68.666	6.522	57.000	45.748	43.998	Data
43	69.447	6.505	57.005	45.748	43.998	Data
43	68.666	6.522	57.000	45.748	43.998	Data
44	69.447	6.505	57.005	45.748	43.998	Data
44	68.666	6.522	57.000	45.748	43.998	Data
45	69.447	6.505	57.005	45.748	43.998	Data
45	68.666	6.522	57.000	45.748	43.998	Data
46.5	70.169	6.496	56.986	45.746	44.005	Data
46.5	69.753	6.584	56.991	45.746	44.005	Data
48	68.806	6.557	57.056	45.743	43.959	Data
48	68.285	6.506	57.059	45.74	43.958	Data
49	68.806	6.557	57.056	45.743	43.959	Data
49	68.285	6.506	57.059	45.74	43.958	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	68.806	6.557	57.056	45.743	43.959	Data
50	68.285	6.506	57.059	45.74	43.958	Data
51	68.806	6.557	57.056	45.743	43.959	Data
51	68.285	6.506	57.059	45.74	43.958	Data
52.5	70.169	6.496	56.986	45.746	44.005	Data
52.5	69.753	6.584	56.991	45.746	44.005	Data
54	70.622	6.510	56.988	45.741	44.000	Data
54	70.204	6.499	56.991	45.742	44.000	Data
55	70.622	6.510	56.988	45.741	44.000	Data
55	70.204	6.499	56.991	45.742	44.000	Data
56	70.622	6.510	56.988	45.741	44.000	Data
56	70.204	6.499	56.991	45.742	44.000	Data
57	70.622	6.510	56.988	45.741	44.000	Data
57	70.204	6.499	56.991	45.742	44.000	Data
58.5	69.753	6.584	56.991	45.746	44.005	Data
58.5	70.169	6.496	56.986	45.746	44.005	Data
60.5	69.506	6.588	56.995	45.74	43.998	Data
60.5	69.605	6.587	57.001	45.741	43.998	Data
61.75	69.506	6.588	56.995	45.74	43.998	Data
61.75	69.605	6.587	57.001	45.741	43.998	Data
63	69.506	6.588	56.995	45.74	43.998	Data
63	69.605	6.587	57.001	45.741	43.998	Data
64	69.506	6.588	56.995	45.74	43.998	Data
64	69.605	6.587	57.001	45.741	43.998	Data

Table 46: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.039	6.499	57.012	46.746	43.999	Data
8	69.760	6.478	57.008	46.747	43.999	Data
8	68.480	6.525	56.984	46.745	44.005	Data
8	69.243	6.578	56.982	46.743	44.005	Data
30	68.102	6.523	57.051	46.743	43.960	Data
30	68.789	6.547	57.050	46.742	43.960	Data
30	68.490	6.550	57.056	46.746	44.003	Data
30	69.039	6.499	57.012	46.746	43.999	Data
30	69.868	6.482	56.998	46.748	44.009	Data
30	70.071	6.497	56.986	46.745	44.000	Data
30	69.851	6.516	56.985	46.745	44.000	Data
30	70.448	6.517	56.974	46.742	43.995	Data
30	69.760	6.478	57.008	46.747	43.999	Data
30	69.243	6.578	56.982	46.743	44.005	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.057	6.496	57.011	46.741	43.998	Data
30	69.457	6.546	57.000	46.739	43.998	Data
30	69.496	6.433	57.005	46.74	43.997	Data
30	69.327	6.553	57.001	46.747	44.009	Data
30	69.938	6.511	57.005	46.74	43.975	Data
30	69.663	6.535	56.979	46.741	43.995	Data
30	69.686	6.534	56.998	46.742	43.974	Data
30	68.480	6.525	56.984	46.745	44.005	Data
30	68.774	6.553	57.061	46.745	44.003	Data
30	69.579	6.560	56.997	46.739	43.998	Data
42	69.868	6.482	56.998	46.748	44.009	Data
42	69.057	6.496	57.011	46.741	43.998	Data
42	69.327	6.553	57.001	46.747	44.009	Data
42	69.496	6.433	57.005	46.74	43.997	Data
43	69.868	6.482	56.998	46.748	44.009	Data
43	69.057	6.496	57.011	46.741	43.998	Data
43	69.327	6.553	57.001	46.747	44.009	Data
43	69.496	6.433	57.005	46.74	43.997	Data
44	69.868	6.482	56.998	46.748	44.009	Data
44	69.057	6.496	57.011	46.741	43.998	Data
44	69.327	6.553	57.001	46.747	44.009	Data
44	69.496	6.433	57.005	46.74	43.997	Data
45	69.868	6.482	56.998	46.748	44.009	Data
45	69.057	6.496	57.011	46.741	43.998	Data
45	69.327	6.553	57.001	46.747	44.009	Data
45	69.496	6.433	57.005	46.74	43.997	Data
46.5	69.039	6.499	57.012	46.746	43.999	Data
46.5	68.480	6.525	56.984	46.745	44.005	Data
46.5	69.760	6.478	57.008	46.747	43.999	Data
46.5	69.243	6.578	56.982	46.743	44.005	Data
48	68.490	6.550	57.056	46.746	44.003	Data
48	68.789	6.547	57.050	46.742	43.960	Data
48	68.774	6.553	57.061	46.745	44.003	Data
48	68.102	6.523	57.051	46.743	43.960	Data
49	68.490	6.550	57.056	46.746	44.003	Data
49	68.789	6.547	57.050	46.742	43.960	Data
49	68.774	6.553	57.061	46.745	44.003	Data
49	68.102	6.523	57.051	46.743	43.960	Data
50	68.490	6.550	57.056	46.746	44.003	Data
50	68.789	6.547	57.050	46.742	43.960	Data
50	68.774	6.553	57.061	46.745	44.003	Data
50	68.102	6.523	57.051	46.743	43.960	Data
51	68.490	6.550	57.056	46.746	44.003	Data
51	68.789	6.547	57.050	46.742	43.960	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	68.774	6.553	57.061	46.745	44.003	Data
51	68.102	6.523	57.051	46.743	43.960	Data
52.5	69.039	6.499	57.012	46.746	43.999	Data
52.5	69.760	6.478	57.008	46.747	43.999	Data
52.5	68.480	6.525	56.984	46.745	44.005	Data
52.5	69.243	6.578	56.982	46.743	44.005	Data
54	69.851	6.516	56.985	46.745	44.000	Data
54	70.448	6.517	56.974	46.742	43.995	Data
54	69.663	6.535	56.979	46.741	43.995	Data
54	70.071	6.497	56.986	46.745	44.000	Data
55	69.851	6.516	56.985	46.745	44.000	Data
55	70.448	6.517	56.974	46.742	43.995	Data
55	69.663	6.535	56.979	46.741	43.995	Data
55	70.071	6.497	56.986	46.745	44.000	Data
56	69.851	6.516	56.985	46.745	44.000	Data
56	70.448	6.517	56.974	46.742	43.995	Data
56	69.663	6.535	56.979	46.741	43.995	Data
56	70.071	6.497	56.986	46.745	44.000	Data
57	69.851	6.516	56.985	46.745	44.000	Data
57	70.448	6.517	56.974	46.742	43.995	Data
57	69.663	6.535	56.979	46.741	43.995	Data
57	70.071	6.497	56.986	46.745	44.000	Data
58.5	69.760	6.478	57.008	46.747	43.999	Data
58.5	69.039	6.499	57.012	46.746	43.999	Data
58.5	68.480	6.525	56.984	46.745	44.005	Data
58.5	69.243	6.578	56.982	46.743	44.005	Data
60.5	69.457	6.546	57.000	46.739	43.998	Data
60.5	69.938	6.511	57.005	46.74	43.975	Data
60.5	69.579	6.560	56.997	46.739	43.998	Data
60.5	69.686	6.534	56.998	46.742	43.974	Data
61.75	69.457	6.546	57.000	46.739	43.998	Data
61.75	69.938	6.511	57.005	46.74	43.975	Data
61.75	69.579	6.560	56.997	46.739	43.998	Data
61.75	69.686	6.534	56.998	46.742	43.974	Data
63	69.457	6.546	57.000	46.739	43.998	Data
63	69.938	6.511	57.005	46.74	43.975	Data
63	69.579	6.560	56.997	46.739	43.998	Data
63	69.686	6.534	56.998	46.742	43.974	Data
64	69.457	6.546	57.000	46.739	43.998	Data
64	69.579	6.560	56.997	46.739	43.998	Data
64	69.938	6.511	57.005	46.74	43.975	Data
64	69.686	6.534	56.998	46.742	43.974	Data

Table 47: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.105	6.572	56.986	47.749	44.005	Data
8	68.723	6.536	56.985	47.75	44.005	Data
30	68.590	6.545	57.045	47.745	43.959	Data
30	69.556	6.513	56.995	47.752	44.000	Data
30	68.816	6.554	57.043	47.746	43.960	Data
30	69.432	6.472	56.985	47.752	44.000	Data
30	69.639	6.553	56.996	47.747	43.998	Data
30	69.105	6.572	56.986	47.749	44.005	Data
30	69.588	6.486	57.008	47.743	43.998	Data
30	69.503	6.579	56.999	47.746	43.998	Data
30	69.301	6.501	57.001	47.743	43.997	Data
30	68.723	6.536	56.985	47.75	44.005	Data
42	69.588	6.486	57.008	47.743	43.998	Data
42	69.301	6.501	57.001	47.743	43.997	Data
43	69.588	6.486	57.008	47.743	43.998	Data
43	69.301	6.501	57.001	47.743	43.997	Data
44	69.588	6.486	57.008	47.743	43.998	Data
44	69.301	6.501	57.001	47.743	43.997	Data
45	69.588	6.486	57.008	47.743	43.998	Data
45	69.301	6.501	57.001	47.743	43.997	Data
46.5	69.105	6.572	56.986	47.749	44.005	Data
46.5	68.723	6.536	56.985	47.75	44.005	Data
48	68.590	6.545	57.045	47.745	43.959	Data
48	68.816	6.554	57.043	47.746	43.960	Data
49	68.590	6.545	57.045	47.745	43.959	Data
49	68.816	6.554	57.043	47.746	43.960	Data
50	68.590	6.545	57.045	47.745	43.959	Data
50	68.816	6.554	57.043	47.746	43.960	Data
51	68.590	6.545	57.045	47.745	43.959	Data
51	68.816	6.554	57.043	47.746	43.960	Data
52.5	69.105	6.572	56.986	47.749	44.005	Data
52.5	68.723	6.536	56.985	47.75	44.005	Data
54	69.556	6.513	56.995	47.752	44.000	Data
54	69.432	6.472	56.985	47.752	44.000	Data
55	69.556	6.513	56.995	47.752	44.000	Data
55	69.432	6.472	56.985	47.752	44.000	Data
56	69.556	6.513	56.995	47.752	44.000	Data
56	69.432	6.472	56.985	47.752	44.000	Data
57	69.556	6.513	56.995	47.752	44.000	Data
57	69.432	6.472	56.985	47.752	44.000	Data
58.5	69.105	6.572	56.986	47.749	44.005	Data
58.5	68.723	6.536	56.985	47.75	44.005	Data
60.5	69.639	6.553	56.996	47.747	43.998	Data
60.5	69.503	6.579	56.999	47.746	43.998	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.639	6.553	56.996	47.747	43.998	Data
61.75	69.503	6.579	56.999	47.746	43.998	Data
63	69.639	6.553	56.996	47.747	43.998	Data
63	69.503	6.579	56.999	47.746	43.998	Data
64	69.639	6.553	56.996	47.747	43.998	Data
64	69.503	6.579	56.999	47.746	43.998	Data

Table 48: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.224	6.569	56.987	48.744	44.006	Data
8	69.261	6.555	56.990	48.744	44.005	Data
30	68.847	6.534	57.040	48.746	43.960	Data
30	68.662	6.486	57.036	48.746	43.960	Data
30	69.807	6.527	56.999	48.74	43.997	Data
30	69.656	6.561	56.998	48.747	43.998	Data
30	70.740	6.485	56.988	48.754	43.999	Data
30	69.854	6.509	56.988	48.753	44.000	Data
30	69.892	6.549	56.998	48.749	43.998	Data
30	69.224	6.569	56.987	48.744	44.006	Data
30	69.200	6.475	57.002	48.739	43.997	Data
30	69.261	6.555	56.990	48.744	44.005	Data
42	69.807	6.527	56.999	48.74	43.997	Data
42	69.200	6.475	57.002	48.739	43.997	Data
43	69.200	6.475	57.002	48.739	43.997	Data
43	69.807	6.527	56.999	48.74	43.997	Data
44	69.200	6.475	57.002	48.739	43.997	Data
44	69.807	6.527	56.999	48.74	43.997	Data
45	69.200	6.475	57.002	48.739	43.997	Data
45	69.807	6.527	56.999	48.74	43.997	Data
46.5	69.224	6.569	56.987	48.744	44.006	Data
46.5	69.261	6.555	56.990	48.744	44.005	Data
48	68.847	6.534	57.040	48.746	43.960	Data
48	68.662	6.486	57.036	48.746	43.960	Data
49	68.847	6.534	57.040	48.746	43.960	Data
49	68.662	6.486	57.036	48.746	43.960	Data
50	68.847	6.534	57.040	48.746	43.960	Data
50	68.662	6.486	57.036	48.746	43.960	Data
51	68.847	6.534	57.040	48.746	43.960	Data
51	68.662	6.486	57.036	48.746	43.960	Data
52.5	69.261	6.555	56.990	48.744	44.005	Data
52.5	69.224	6.569	56.987	48.744	44.006	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.854	6.509	56.988	48.753	44.000	Data
54	70.740	6.485	56.988	48.754	43.999	Data
55	69.854	6.509	56.988	48.753	44.000	Data
55	70.740	6.485	56.988	48.754	43.999	Data
56	69.854	6.509	56.988	48.753	44.000	Data
56	70.740	6.485	56.988	48.754	43.999	Data
57	69.854	6.509	56.988	48.753	44.000	Data
57	70.740	6.485	56.988	48.754	43.999	Data
58.5	69.224	6.569	56.987	48.744	44.006	Data
58.5	69.261	6.555	56.990	48.744	44.005	Data
60.5	69.892	6.549	56.998	48.749	43.998	Data
60.5	69.656	6.561	56.998	48.747	43.998	Data
61.75	69.892	6.549	56.998	48.749	43.998	Data
61.75	69.656	6.561	56.998	48.747	43.998	Data
63	69.656	6.561	56.998	48.747	43.998	Data
63	69.892	6.549	56.998	48.749	43.998	Data
64	69.892	6.549	56.998	48.749	43.998	Data
64	69.656	6.561	56.998	48.747	43.998	Data

Table 49: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.802	6.499	56.989	49.757	44.005	Data
8	68.947	6.565	56.992	49.756	44.005	Data
30	68.947	6.565	56.992	49.756	44.005	Data
30	69.652	6.548	57.008	49.75	43.997	Data
30	68.618	6.572	57.038	49.75	43.961	Data
30	69.083	6.525	57.041	49.749	43.961	Data
30	70.347	6.522	56.997	49.755	43.998	Data
30	70.512	6.588	57.002	49.755	43.998	Data
30	68.802	6.499	56.989	49.757	44.005	Data
30	70.539	6.520	56.990	49.753	44.000	Data
30	70.219	6.440	56.988	49.752	43.999	Data
30	68.909	6.481	57.009	49.748	43.997	Data
42	69.652	6.548	57.008	49.75	43.997	Data
42	68.909	6.481	57.009	49.748	43.997	Data
43	69.652	6.548	57.008	49.75	43.997	Data
43	68.909	6.481	57.009	49.748	43.997	Data
44	69.652	6.548	57.008	49.75	43.997	Data
44	68.909	6.481	57.009	49.748	43.997	Data
45	69.652	6.548	57.008	49.75	43.997	Data
45	68.909	6.481	57.009	49.748	43.997	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	68.947	6.565	56.992	49.756	44.005	Data
46.5	68.802	6.499	56.989	49.757	44.005	Data
48	69.083	6.525	57.041	49.749	43.961	Data
48	68.618	6.572	57.038	49.75	43.961	Data
49	69.083	6.525	57.041	49.749	43.961	Data
49	68.618	6.572	57.038	49.75	43.961	Data
50	69.083	6.525	57.041	49.749	43.961	Data
50	68.618	6.572	57.038	49.75	43.961	Data
51	69.083	6.525	57.041	49.749	43.961	Data
51	68.618	6.572	57.038	49.75	43.961	Data
52.5	68.947	6.565	56.992	49.756	44.005	Data
52.5	68.802	6.499	56.989	49.757	44.005	Data
54	70.539	6.520	56.990	49.753	44.000	Data
54	70.219	6.440	56.988	49.752	43.999	Data
55	70.539	6.520	56.990	49.753	44.000	Data
55	70.219	6.440	56.988	49.752	43.999	Data
56	70.539	6.520	56.990	49.753	44.000	Data
56	70.219	6.440	56.988	49.752	43.999	Data
57	70.539	6.520	56.990	49.753	44.000	Data
57	70.219	6.440	56.988	49.752	43.999	Data
58.5	68.947	6.565	56.992	49.756	44.005	Data
58.5	68.802	6.499	56.989	49.757	44.005	Data
60.5	70.347	6.522	56.997	49.755	43.998	Data
60.5	70.512	6.588	57.002	49.755	43.998	Data
61.75	70.347	6.522	56.997	49.755	43.998	Data
61.75	70.512	6.588	57.002	49.755	43.998	Data
63	70.347	6.522	56.997	49.755	43.998	Data
63	70.512	6.588	57.002	49.755	43.998	Data
64	70.347	6.522	56.997	49.755	43.998	Data
64	70.512	6.588	57.002	49.755	43.998	Data

Table 50: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.055	6.551	56.983	50.751	44.006	Data
8	68.899	6.579	56.984	50.751	44.006	Data
30	69.008	6.562	57.035	50.741	43.961	Data
30	68.829	6.463	57.035	50.74	43.961	Data
30	69.055	6.551	56.983	50.751	44.006	Data
30	69.925	6.560	56.998	50.748	43.997	Data
30	70.173	6.543	57.001	50.744	43.998	Data
30	70.723	6.481	56.991	50.751	43.999	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.226	6.464	57.007	50.745	43.997	Data
30	70.697	6.522	56.986	50.751	43.999	Data
30	68.899	6.579	56.984	50.751	44.006	Data
30	70.054	6.634	56.997	50.743	43.997	Data
42	69.925	6.560	56.998	50.748	43.997	Data
42	69.226	6.464	57.007	50.745	43.997	Data
43	69.925	6.560	56.998	50.748	43.997	Data
43	69.226	6.464	57.007	50.745	43.997	Data
44	69.925	6.560	56.998	50.748	43.997	Data
44	69.226	6.464	57.007	50.745	43.997	Data
45	69.925	6.560	56.998	50.748	43.997	Data
45	69.226	6.464	57.007	50.745	43.997	Data
46.5	69.055	6.551	56.983	50.751	44.006	Data
46.5	68.899	6.579	56.984	50.751	44.006	Data
48	68.829	6.463	57.035	50.74	43.961	Data
48	69.008	6.562	57.035	50.741	43.961	Data
49	68.829	6.463	57.035	50.74	43.961	Data
49	69.008	6.562	57.035	50.741	43.961	Data
50	68.829	6.463	57.035	50.74	43.961	Data
50	69.008	6.562	57.035	50.741	43.961	Data
51	68.829	6.463	57.035	50.74	43.961	Data
51	69.008	6.562	57.035	50.741	43.961	Data
52.5	69.055	6.551	56.983	50.751	44.006	Data
52.5	68.899	6.579	56.984	50.751	44.006	Data
54	70.697	6.522	56.986	50.751	43.999	Data
54	70.723	6.481	56.991	50.751	43.999	Data
55	70.697	6.522	56.986	50.751	43.999	Data
55	70.723	6.481	56.991	50.751	43.999	Data
56	70.697	6.522	56.986	50.751	43.999	Data
56	70.723	6.481	56.991	50.751	43.999	Data
57	70.697	6.522	56.986	50.751	43.999	Data
57	70.723	6.481	56.991	50.751	43.999	Data
58.5	68.899	6.579	56.984	50.751	44.006	Data
58.5	69.055	6.551	56.983	50.751	44.006	Data
60.5	70.054	6.634	56.997	50.743	43.997	Data
60.5	70.173	6.543	57.001	50.744	43.998	Data
61.75	70.054	6.634	56.997	50.743	43.997	Data
61.75	70.173	6.543	57.001	50.744	43.998	Data
63	70.054	6.634	56.997	50.743	43.997	Data
63	70.173	6.543	57.001	50.744	43.998	Data
64	70.173	6.543	57.001	50.744	43.998	Data
64	70.054	6.634	56.997	50.743	43.997	Data

Table 51: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	67.720	6.541	56.990	51.751	44.006	Data
8	69.130	6.567	56.981	51.751	44.006	Data
30	69.213	6.552	57.013	51.749	43.961	Data
30	70.494	6.483	56.994	51.75	43.999	Data
30	69.556	6.564	57.024	51.748	43.961	Data
30	69.404	6.498	57.005	51.742	43.997	Data
30	70.102	6.471	56.989	51.751	43.999	Data
30	67.720	6.541	56.990	51.751	44.006	Data
30	69.080	6.535	57.000	51.741	43.997	Data
30	69.572	6.540	57.009	51.744	43.998	Data
30	70.341	6.519	56.999	51.744	43.997	Data
30	69.130	6.567	56.981	51.751	44.006	Data
42	69.404	6.498	57.005	51.742	43.997	Data
42	69.080	6.535	57.000	51.741	43.997	Data
43	69.404	6.498	57.005	51.742	43.997	Data
43	69.080	6.535	57.000	51.741	43.997	Data
44	69.404	6.498	57.005	51.742	43.997	Data
44	69.080	6.535	57.000	51.741	43.997	Data
45	69.404	6.498	57.005	51.742	43.997	Data
45	69.080	6.535	57.000	51.741	43.997	Data
46.5	67.720	6.541	56.990	51.751	44.006	Data
46.5	69.130	6.567	56.981	51.751	44.006	Data
48	69.213	6.552	57.013	51.749	43.961	Data
48	69.556	6.564	57.024	51.748	43.961	Data
49	69.213	6.552	57.013	51.749	43.961	Data
49	69.556	6.564	57.024	51.748	43.961	Data
50	69.556	6.564	57.024	51.748	43.961	Data
50	69.213	6.552	57.013	51.749	43.961	Data
51	69.556	6.564	57.024	51.748	43.961	Data
51	69.213	6.552	57.013	51.749	43.961	Data
52.5	69.130	6.567	56.981	51.751	44.006	Data
52.5	67.720	6.541	56.990	51.751	44.006	Data
54	70.494	6.483	56.994	51.75	43.999	Data
54	70.102	6.471	56.989	51.751	43.999	Data
55	70.494	6.483	56.994	51.75	43.999	Data
55	70.102	6.471	56.989	51.751	43.999	Data
56	70.494	6.483	56.994	51.75	43.999	Data
56	70.102	6.471	56.989	51.751	43.999	Data
57	70.494	6.483	56.994	51.75	43.999	Data
57	70.102	6.471	56.989	51.751	43.999	Data
58.5	69.130	6.567	56.981	51.751	44.006	Data
58.5	67.720	6.541	56.990	51.751	44.006	Data
60.5	69.572	6.540	57.009	51.744	43.998	Data
60.5	70.341	6.519	56.999	51.744	43.997	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.572	6.540	57.009	51.744	43.998	Data
61.75	70.341	6.519	56.999	51.744	43.997	Data
63	69.572	6.540	57.009	51.744	43.998	Data
63	70.341	6.519	56.999	51.744	43.997	Data
64	69.572	6.540	57.009	51.744	43.998	Data
64	70.341	6.519	56.999	51.744	43.997	Data

Table 52: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.573	6.548	57.052	52.748	44.003	Data
8	70.289	6.563	57.053	52.749	44.003	Data
8	69.372	6.604	56.986	52.751	44.006	Data
8	69.140	6.534	56.987	52.751	44.006	Data
30	70.098	6.623	57.003	52.749	44.016	Data
30	69.850	6.529	57.064	52.746	43.995	Data
30	69.024	6.525	57.008	52.746	44.000	Data
30	69.592	6.519	57.019	52.755	43.962	Data
30	70.607	6.480	56.988	52.75	43.999	Data
30	69.372	6.604	56.986	52.751	44.006	Data
30	69.259	6.472	57.009	52.745	44.000	Data
30	70.262	6.515	57.013	52.741	43.993	Data
30	68.428	6.518	57.016	52.756	43.961	Data
30	69.607	6.548	57.005	52.748	43.997	Data
30	70.016	6.509	57.069	52.748	43.995	Data
30	69.839	6.454	57.003	52.741	43.993	Data
30	70.289	6.563	57.053	52.749	44.003	Data
30	70.333	6.556	57.010	52.753	43.997	Data
30	69.573	6.548	57.052	52.748	44.003	Data
30	69.140	6.534	56.987	52.751	44.006	Data
30	70.677	6.546	57.008	52.752	43.997	Data
30	70.594	6.546	56.993	52.75	43.998	Data
30	69.583	6.541	57.006	52.748	43.996	Data
30	70.515	6.515	57.008	52.748	44.016	Data
42	69.583	6.541	57.006	52.748	43.996	Data
42	69.839	6.454	57.003	52.741	43.993	Data
42	69.607	6.548	57.005	52.748	43.997	Data
42	70.262	6.515	57.013	52.741	43.993	Data
43	69.583	6.541	57.006	52.748	43.996	Data
43	69.839	6.454	57.003	52.741	43.993	Data
43	69.607	6.548	57.005	52.748	43.997	Data
43	70.262	6.515	57.013	52.741	43.993	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	69.583	6.541	57.006	52.748	43.996	Data
44	69.839	6.454	57.003	52.741	43.993	Data
44	69.607	6.548	57.005	52.748	43.997	Data
44	70.262	6.515	57.013	52.741	43.993	Data
45	69.583	6.541	57.006	52.748	43.996	Data
45	69.839	6.454	57.003	52.741	43.993	Data
45	69.607	6.548	57.005	52.748	43.997	Data
45	70.262	6.515	57.013	52.741	43.993	Data
46.5	69.573	6.548	57.052	52.748	44.003	Data
46.5	69.140	6.534	56.987	52.751	44.006	Data
46.5	69.372	6.604	56.986	52.751	44.006	Data
46.5	70.289	6.563	57.053	52.749	44.003	Data
48	69.850	6.529	57.064	52.746	43.995	Data
48	70.016	6.509	57.069	52.748	43.995	Data
48	68.428	6.518	57.016	52.756	43.961	Data
48	69.592	6.519	57.019	52.755	43.962	Data
49	69.850	6.529	57.064	52.746	43.995	Data
49	70.016	6.509	57.069	52.748	43.995	Data
49	68.428	6.518	57.016	52.756	43.961	Data
49	69.592	6.519	57.019	52.755	43.962	Data
50	69.850	6.529	57.064	52.746	43.995	Data
50	70.016	6.509	57.069	52.748	43.995	Data
50	68.428	6.518	57.016	52.756	43.961	Data
50	69.592	6.519	57.019	52.755	43.962	Data
51	69.850	6.529	57.064	52.746	43.995	Data
51	70.016	6.509	57.069	52.748	43.995	Data
51	68.428	6.518	57.016	52.756	43.961	Data
51	69.592	6.519	57.019	52.755	43.962	Data
52.5	69.573	6.548	57.052	52.748	44.003	Data
52.5	69.140	6.534	56.987	52.751	44.006	Data
52.5	69.372	6.604	56.986	52.751	44.006	Data
52.5	70.289	6.563	57.053	52.749	44.003	Data
54	69.259	6.472	57.009	52.745	44.000	Data
54	69.024	6.525	57.008	52.746	44.000	Data
54	70.607	6.480	56.988	52.75	43.999	Data
54	70.594	6.546	56.993	52.75	43.998	Data
55	69.259	6.472	57.009	52.745	44.000	Data
55	69.024	6.525	57.008	52.746	44.000	Data
55	70.607	6.480	56.988	52.75	43.999	Data
55	70.594	6.546	56.993	52.75	43.998	Data
56	69.259	6.472	57.009	52.745	44.000	Data
56	69.024	6.525	57.008	52.746	44.000	Data
56	70.607	6.480	56.988	52.75	43.999	Data
56	70.594	6.546	56.993	52.75	43.998	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	69.259	6.472	57.009	52.745	44.000	Data
57	69.024	6.525	57.008	52.746	44.000	Data
57	70.607	6.480	56.988	52.75	43.999	Data
57	70.594	6.546	56.993	52.75	43.998	Data
58.5	69.140	6.534	56.987	52.751	44.006	Data
58.5	69.573	6.548	57.052	52.748	44.003	Data
58.5	69.372	6.604	56.986	52.751	44.006	Data
58.5	70.289	6.563	57.053	52.749	44.003	Data
60.5	70.098	6.623	57.003	52.749	44.016	Data
60.5	70.515	6.515	57.008	52.748	44.016	Data
60.5	70.333	6.556	57.010	52.753	43.997	Data
60.5	70.677	6.546	57.008	52.752	43.997	Data
61.75	70.098	6.623	57.003	52.749	44.016	Data
61.75	70.515	6.515	57.008	52.748	44.016	Data
61.75	70.333	6.556	57.010	52.753	43.997	Data
61.75	70.677	6.546	57.008	52.752	43.997	Data
63	70.098	6.623	57.003	52.749	44.016	Data
63	70.515	6.515	57.008	52.748	44.016	Data
63	70.333	6.556	57.010	52.753	43.997	Data
63	70.677	6.546	57.008	52.752	43.997	Data
64	70.098	6.623	57.003	52.749	44.016	Data
64	70.333	6.556	57.010	52.753	43.997	Data
64	70.515	6.515	57.008	52.748	44.016	Data
64	70.677	6.546	57.008	52.752	43.997	Data

Table 53: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.529	6.556	56.979	53.752	44.007	Data
8	69.258	6.563	56.984	53.752	44.007	Data
30	69.970	6.520	57.008	53.743	43.996	Data
30	68.529	6.556	56.979	53.752	44.007	Data
30	68.847	6.511	57.006	53.746	43.961	Data
30	70.500	6.568	57.010	53.743	43.997	Data
30	69.631	6.460	57.015	53.747	43.962	Data
30	70.793	6.502	56.988	53.74	43.998	Data
30	69.258	6.563	56.984	53.752	44.007	Data
30	70.407	6.525	57.009	53.742	43.997	Data
30	70.408	6.546	56.993	53.74	43.998	Data
30	69.758	6.428	57.002	53.742	43.997	Data
42	69.970	6.520	57.008	53.743	43.996	Data
42	69.758	6.428	57.002	53.742	43.997	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	69.970	6.520	57.008	53.743	43.996	Data
43	69.758	6.428	57.002	53.742	43.997	Data
44	69.970	6.520	57.008	53.743	43.996	Data
44	69.758	6.428	57.002	53.742	43.997	Data
45	69.970	6.520	57.008	53.743	43.996	Data
45	69.758	6.428	57.002	53.742	43.997	Data
46.5	69.258	6.563	56.984	53.752	44.007	Data
46.5	68.529	6.556	56.979	53.752	44.007	Data
48	69.631	6.460	57.015	53.747	43.962	Data
48	68.847	6.511	57.006	53.746	43.961	Data
49	69.631	6.460	57.015	53.747	43.962	Data
49	68.847	6.511	57.006	53.746	43.961	Data
50	69.631	6.460	57.015	53.747	43.962	Data
50	68.847	6.511	57.006	53.746	43.961	Data
51	69.631	6.460	57.015	53.747	43.962	Data
51	68.847	6.511	57.006	53.746	43.961	Data
52.5	69.258	6.563	56.984	53.752	44.007	Data
52.5	68.529	6.556	56.979	53.752	44.007	Data
54	70.408	6.546	56.993	53.74	43.998	Data
54	70.793	6.502	56.988	53.74	43.998	Data
55	70.408	6.546	56.993	53.74	43.998	Data
55	70.793	6.502	56.988	53.74	43.998	Data
56	70.408	6.546	56.993	53.74	43.998	Data
56	70.793	6.502	56.988	53.74	43.998	Data
57	70.408	6.546	56.993	53.74	43.998	Data
57	70.793	6.502	56.988	53.74	43.998	Data
58.5	68.529	6.556	56.979	53.752	44.007	Data
58.5	69.258	6.563	56.984	53.752	44.007	Data
60.5	70.500	6.568	57.010	53.743	43.997	Data
60.5	70.407	6.525	57.009	53.742	43.997	Data
61.75	70.500	6.568	57.010	53.743	43.997	Data
61.75	70.407	6.525	57.009	53.742	43.997	Data
63	70.500	6.568	57.010	53.743	43.997	Data
63	70.407	6.525	57.009	53.742	43.997	Data
64	70.500	6.568	57.010	53.743	43.997	Data
64	70.407	6.525	57.009	53.742	43.997	Data

Table 54: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.251	6.526	56.979	54.748	44.007	Data
8	70.460	6.546	56.986	54.747	44.007	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.729	6.475	56.991	54.747	43.998	Data
30	68.773	6.510	56.990	54.742	43.963	Data
30	70.417	6.530	56.990	54.746	43.997	Data
30	69.312	6.505	57.005	54.746	43.997	Data
30	70.313	6.556	57.009	54.746	43.997	Data
30	69.251	6.526	56.979	54.748	44.007	Data
30	69.792	6.552	56.996	54.741	43.963	Data
30	70.460	6.546	56.986	54.747	44.007	Data
30	70.521	6.531	57.010	54.746	43.997	Data
30	69.898	6.540	57.001	54.744	43.997	Data
42	69.312	6.505	57.005	54.746	43.997	Data
42	69.898	6.540	57.001	54.744	43.997	Data
43	69.312	6.505	57.005	54.746	43.997	Data
43	69.898	6.540	57.001	54.744	43.997	Data
44	69.312	6.505	57.005	54.746	43.997	Data
44	69.898	6.540	57.001	54.744	43.997	Data
45	69.312	6.505	57.005	54.746	43.997	Data
45	69.898	6.540	57.001	54.744	43.997	Data
46.5	69.251	6.526	56.979	54.748	44.007	Data
46.5	70.460	6.546	56.986	54.747	44.007	Data
48	68.773	6.510	56.990	54.742	43.963	Data
48	69.792	6.552	56.996	54.741	43.963	Data
49	68.773	6.510	56.990	54.742	43.963	Data
49	69.792	6.552	56.996	54.741	43.963	Data
50	68.773	6.510	56.990	54.742	43.963	Data
50	69.792	6.552	56.996	54.741	43.963	Data
51	68.773	6.510	56.990	54.742	43.963	Data
51	69.792	6.552	56.996	54.741	43.963	Data
52.5	70.460	6.546	56.986	54.747	44.007	Data
52.5	69.251	6.526	56.979	54.748	44.007	Data
54	70.729	6.475	56.991	54.747	43.998	Data
54	70.417	6.530	56.990	54.746	43.997	Data
55	70.729	6.475	56.991	54.747	43.998	Data
55	70.417	6.530	56.990	54.746	43.997	Data
56	70.729	6.475	56.991	54.747	43.998	Data
56	70.417	6.530	56.990	54.746	43.997	Data
57	70.729	6.475	56.991	54.747	43.998	Data
57	70.417	6.530	56.990	54.746	43.997	Data
58.5	70.460	6.546	56.986	54.747	44.007	Data
58.5	69.251	6.526	56.979	54.748	44.007	Data
60.5	70.313	6.556	57.009	54.746	43.997	Data
60.5	70.521	6.531	57.010	54.746	43.997	Data
61.75	70.313	6.556	57.009	54.746	43.997	Data
61.75	70.521	6.531	57.010	54.746	43.997	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	70.313	6.556	57.009	54.746	43.997	Data
63	70.521	6.531	57.010	54.746	43.997	Data
64	70.313	6.556	57.009	54.746	43.997	Data
64	70.521	6.531	57.010	54.746	43.997	Data

Table 55: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.117	6.547	56.989	55.739	44.008	Data
8	69.775	6.575	56.984	55.74	44.007	Data
30	71.488	6.482	56.990	55.748	43.997	Data
30	69.737	6.532	57.010	55.741	43.963	Data
30	71.026	6.529	57.008	55.738	43.996	Data
30	70.914	6.460	56.990	55.749	43.997	Data
30	69.839	6.532	57.002	55.741	43.998	Data
30	70.532	6.527	57.013	55.741	43.997	Data
30	70.196	6.533	57.002	55.741	43.963	Data
30	69.117	6.547	56.989	55.739	44.008	Data
30	69.775	6.575	56.984	55.74	44.007	Data
30	70.226	6.500	57.004	55.741	43.998	Data
42	69.839	6.532	57.002	55.741	43.998	Data
42	70.226	6.500	57.004	55.741	43.998	Data
43	69.839	6.532	57.002	55.741	43.998	Data
43	70.226	6.500	57.004	55.741	43.998	Data
44	69.839	6.532	57.002	55.741	43.998	Data
44	70.226	6.500	57.004	55.741	43.998	Data
45	69.839	6.532	57.002	55.741	43.998	Data
45	70.226	6.500	57.004	55.741	43.998	Data
46.5	69.775	6.575	56.984	55.74	44.007	Data
46.5	69.117	6.547	56.989	55.739	44.008	Data
48	70.196	6.533	57.002	55.741	43.963	Data
48	69.737	6.532	57.010	55.741	43.963	Data
49	70.196	6.533	57.002	55.741	43.963	Data
49	69.737	6.532	57.010	55.741	43.963	Data
50	70.196	6.533	57.002	55.741	43.963	Data
50	69.737	6.532	57.010	55.741	43.963	Data
51	70.196	6.533	57.002	55.741	43.963	Data
51	69.737	6.532	57.010	55.741	43.963	Data
52.5	69.775	6.575	56.984	55.74	44.007	Data
52.5	69.117	6.547	56.989	55.739	44.008	Data
54	71.488	6.482	56.990	55.748	43.997	Data
54	70.914	6.460	56.990	55.749	43.997	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	71.488	6.482	56.990	55.748	43.997	Data
55	70.914	6.460	56.990	55.749	43.997	Data
56	71.488	6.482	56.990	55.748	43.997	Data
56	70.914	6.460	56.990	55.749	43.997	Data
57	71.488	6.482	56.990	55.748	43.997	Data
57	70.914	6.460	56.990	55.749	43.997	Data
58.5	69.775	6.575	56.984	55.74	44.007	Data
58.5	69.117	6.547	56.989	55.739	44.008	Data
60.5	71.026	6.529	57.008	55.738	43.996	Data
60.5	70.532	6.527	57.013	55.741	43.997	Data
61.75	71.026	6.529	57.008	55.738	43.996	Data
61.75	70.532	6.527	57.013	55.741	43.997	Data
63	71.026	6.529	57.008	55.738	43.996	Data
63	70.532	6.527	57.013	55.741	43.997	Data
64	71.026	6.529	57.008	55.738	43.996	Data
64	70.532	6.527	57.013	55.741	43.997	Data

Table 56: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.231	6.486	56.984	56.745	44.009	Data
8	70.152	6.498	56.987	56.745	44.008	Data
30	70.231	6.486	56.984	56.745	44.009	Data
30	70.324	6.524	57.011	56.74	43.963	Data
30	71.260	6.492	56.994	56.754	43.997	Data
30	69.396	6.506	57.008	56.74	43.963	Data
30	71.138	6.465	56.992	56.755	43.997	Data
30	71.606	6.485	57.017	56.751	43.996	Data
30	70.170	6.514	57.006	56.74	43.998	Data
30	69.818	6.467	57.011	56.743	43.998	Data
30	71.204	6.570	57.012	56.751	43.996	Data
30	70.152	6.498	56.987	56.745	44.008	Data
42	69.818	6.467	57.011	56.743	43.998	Data
42	70.170	6.514	57.006	56.74	43.998	Data
43	69.818	6.467	57.011	56.743	43.998	Data
43	70.170	6.514	57.006	56.74	43.998	Data
44	69.818	6.467	57.011	56.743	43.998	Data
44	70.170	6.514	57.006	56.74	43.998	Data
45	69.818	6.467	57.011	56.743	43.998	Data
45	70.170	6.514	57.006	56.74	43.998	Data
46.5	70.231	6.486	56.984	56.745	44.009	Data
46.5	70.152	6.498	56.987	56.745	44.008	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	69.396	6.506	57.008	56.74	43.963	Data
48	70.324	6.524	57.011	56.74	43.963	Data
49	69.396	6.506	57.008	56.74	43.963	Data
49	70.324	6.524	57.011	56.74	43.963	Data
50	69.396	6.506	57.008	56.74	43.963	Data
50	70.324	6.524	57.011	56.74	43.963	Data
51	69.396	6.506	57.008	56.74	43.963	Data
51	70.324	6.524	57.011	56.74	43.963	Data
52.5	70.231	6.486	56.984	56.745	44.009	Data
52.5	70.152	6.498	56.987	56.745	44.008	Data
54	71.260	6.492	56.994	56.754	43.997	Data
54	71.138	6.465	56.992	56.755	43.997	Data
55	71.260	6.492	56.994	56.754	43.997	Data
55	71.138	6.465	56.992	56.755	43.997	Data
56	71.260	6.492	56.994	56.754	43.997	Data
56	71.138	6.465	56.992	56.755	43.997	Data
57	71.260	6.492	56.994	56.754	43.997	Data
57	71.138	6.465	56.992	56.755	43.997	Data
58.5	70.231	6.486	56.984	56.745	44.009	Data
58.5	70.152	6.498	56.987	56.745	44.008	Data
60.5	71.204	6.570	57.012	56.751	43.996	Data
60.5	71.606	6.485	57.017	56.751	43.996	Data
61.75	71.204	6.570	57.012	56.751	43.996	Data
61.75	71.606	6.485	57.017	56.751	43.996	Data
63	71.204	6.570	57.012	56.751	43.996	Data
63	71.606	6.485	57.017	56.751	43.996	Data
64	71.204	6.570	57.012	56.751	43.996	Data
64	71.606	6.485	57.017	56.751	43.996	Data

Table 57: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.218	6.578	56.988	57.752	44.009	Data
8	70.485	6.553	56.981	57.752	44.009	Data
30	70.281	6.499	57.005	57.75	43.998	Data
30	71.415	6.605	57.007	57.754	43.996	Data
30	71.205	6.513	56.987	57.752	43.996	Data
30	71.232	6.495	56.990	57.751	43.996	Data
30	69.648	6.495	56.995	57.752	43.964	Data
30	70.485	6.553	56.981	57.752	44.009	Data
30	70.716	6.555	57.011	57.753	43.996	Data
30	69.603	6.553	56.996	57.754	43.964	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.260	6.499	57.004	57.75	43.999	Data
30	70.218	6.578	56.988	57.752	44.009	Data
42	70.281	6.499	57.005	57.75	43.998	Data
42	70.260	6.499	57.004	57.75	43.999	Data
43	70.281	6.499	57.005	57.75	43.998	Data
43	70.260	6.499	57.004	57.75	43.999	Data
44	70.281	6.499	57.005	57.75	43.998	Data
44	70.260	6.499	57.004	57.75	43.999	Data
45	70.281	6.499	57.005	57.75	43.998	Data
45	70.260	6.499	57.004	57.75	43.999	Data
46.5	70.218	6.578	56.988	57.752	44.009	Data
46.5	70.485	6.553	56.981	57.752	44.009	Data
48	69.603	6.553	56.996	57.754	43.964	Data
48	69.648	6.495	56.995	57.752	43.964	Data
49	69.603	6.553	56.996	57.754	43.964	Data
49	69.648	6.495	56.995	57.752	43.964	Data
50	69.603	6.553	56.996	57.754	43.964	Data
50	69.648	6.495	56.995	57.752	43.964	Data
51	69.603	6.553	56.996	57.754	43.964	Data
51	69.648	6.495	56.995	57.752	43.964	Data
52.5	70.218	6.578	56.988	57.752	44.009	Data
52.5	70.485	6.553	56.981	57.752	44.009	Data
54	71.232	6.495	56.990	57.751	43.996	Data
54	71.205	6.513	56.987	57.752	43.996	Data
55	71.232	6.495	56.990	57.751	43.996	Data
55	71.205	6.513	56.987	57.752	43.996	Data
56	71.232	6.495	56.990	57.751	43.996	Data
56	71.205	6.513	56.987	57.752	43.996	Data
57	71.232	6.495	56.990	57.751	43.996	Data
57	71.205	6.513	56.987	57.752	43.996	Data
58.5	70.218	6.578	56.988	57.752	44.009	Data
58.5	70.485	6.553	56.981	57.752	44.009	Data
60.5	70.716	6.555	57.011	57.753	43.996	Data
60.5	71.415	6.605	57.007	57.754	43.996	Data
61.75	70.716	6.555	57.011	57.753	43.996	Data
61.75	71.415	6.605	57.007	57.754	43.996	Data
63	70.716	6.555	57.011	57.753	43.996	Data
63	71.415	6.605	57.007	57.754	43.996	Data
64	70.716	6.555	57.011	57.753	43.996	Data
64	71.415	6.605	57.007	57.754	43.996	Data

Table 58: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.352	6.572	56.985	58.75	44.010	Data
8	69.940	6.523	56.984	58.751	44.010	Data
8	69.991	6.570	56.982	58.741	44.002	Data
8	70.066	6.584	56.972	58.741	44.001	Data
30	71.433	6.527	56.991	58.75	43.995	Data
30	70.112	6.527	57.013	58.746	43.999	Data
30	69.767	6.556	56.995	58.755	43.965	Data
30	69.991	6.570	56.982	58.741	44.002	Data
30	69.826	6.493	57.018	58.742	44.009	Data
30	70.352	6.572	56.985	58.75	44.010	Data
30	69.940	6.523	56.984	58.751	44.010	Data
30	69.613	6.518	56.998	58.754	43.966	Data
30	71.245	6.541	57.013	58.75	43.995	Data
30	70.059	6.505	57.010	58.75	44.014	Data
30	70.601	6.514	57.013	58.749	44.014	Data
30	70.066	6.584	56.972	58.741	44.001	Data
30	70.672	6.537	57.010	58.744	44.002	Data
30	71.236	6.537	56.995	58.748	43.996	Data
30	69.264	6.484	57.026	58.743	44.009	Data
30	71.069	6.590	57.010	58.751	43.995	Data
30	70.907	6.547	57.067	58.75	44.013	Data
30	70.588	6.571	57.073	58.749	44.013	Data
30	71.283	6.615	57.008	58.745	44.001	Data
30	70.678	6.458	57.012	58.744	43.999	Data
42	70.059	6.505	57.010	58.75	44.014	Data
42	70.112	6.527	57.013	58.746	43.999	Data
42	70.601	6.514	57.013	58.749	44.014	Data
42	70.678	6.458	57.012	58.744	43.999	Data
43	70.059	6.505	57.010	58.75	44.014	Data
43	70.112	6.527	57.013	58.746	43.999	Data
43	70.601	6.514	57.013	58.749	44.014	Data
43	70.678	6.458	57.012	58.744	43.999	Data
44	70.059	6.505	57.010	58.75	44.014	Data
44	70.112	6.527	57.013	58.746	43.999	Data
44	70.601	6.514	57.013	58.749	44.014	Data
44	70.678	6.458	57.012	58.744	43.999	Data
45	70.059	6.505	57.010	58.75	44.014	Data
45	70.112	6.527	57.013	58.746	43.999	Data
45	70.601	6.514	57.013	58.749	44.014	Data
45	70.678	6.458	57.012	58.744	43.999	Data
46.5	69.940	6.523	56.984	58.751	44.010	Data
46.5	69.991	6.570	56.982	58.741	44.002	Data
46.5	70.066	6.584	56.972	58.741	44.001	Data
46.5	70.352	6.572	56.985	58.75	44.010	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	69.613	6.518	56.998	58.754	43.966	Data
48	70.907	6.547	57.067	58.75	44.013	Data
48	69.767	6.556	56.995	58.755	43.965	Data
48	70.588	6.571	57.073	58.749	44.013	Data
49	69.613	6.518	56.998	58.754	43.966	Data
49	70.907	6.547	57.067	58.75	44.013	Data
49	69.767	6.556	56.995	58.755	43.965	Data
49	70.588	6.571	57.073	58.749	44.013	Data
50	69.613	6.518	56.998	58.754	43.966	Data
50	70.907	6.547	57.067	58.75	44.013	Data
50	69.767	6.556	56.995	58.755	43.965	Data
50	70.588	6.571	57.073	58.749	44.013	Data
51	69.613	6.518	56.998	58.754	43.966	Data
51	70.907	6.547	57.067	58.75	44.013	Data
51	69.767	6.556	56.995	58.755	43.965	Data
51	70.588	6.571	57.073	58.749	44.013	Data
52.5	69.940	6.523	56.984	58.751	44.010	Data
52.5	69.991	6.570	56.982	58.741	44.002	Data
52.5	70.066	6.584	56.972	58.741	44.001	Data
52.5	70.352	6.572	56.985	58.75	44.010	Data
54	71.433	6.527	56.991	58.75	43.995	Data
54	71.236	6.537	56.995	58.748	43.996	Data
54	69.264	6.484	57.026	58.743	44.009	Data
54	69.826	6.493	57.018	58.742	44.009	Data
55	71.433	6.527	56.991	58.75	43.995	Data
55	71.236	6.537	56.995	58.748	43.996	Data
55	69.264	6.484	57.026	58.743	44.009	Data
55	69.826	6.493	57.018	58.742	44.009	Data
56	71.433	6.527	56.991	58.75	43.995	Data
56	71.236	6.537	56.995	58.748	43.996	Data
56	69.264	6.484	57.026	58.743	44.009	Data
56	69.826	6.493	57.018	58.742	44.009	Data
57	71.433	6.527	56.991	58.75	43.995	Data
57	71.236	6.537	56.995	58.748	43.996	Data
57	69.264	6.484	57.026	58.743	44.009	Data
57	69.826	6.493	57.018	58.742	44.009	Data
58.5	69.940	6.523	56.984	58.751	44.010	Data
58.5	69.991	6.570	56.982	58.741	44.002	Data
58.5	70.066	6.584	56.972	58.741	44.001	Data
58.5	70.352	6.572	56.985	58.75	44.010	Data
60.5	71.245	6.541	57.013	58.75	43.995	Data
60.5	70.672	6.537	57.010	58.744	44.002	Data
60.5	71.283	6.615	57.008	58.745	44.001	Data
60.5	71.069	6.590	57.010	58.751	43.995	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	71.245	6.541	57.013	58.75	43.995	Data
61.75	70.672	6.537	57.010	58.744	44.002	Data
61.75	71.283	6.615	57.008	58.745	44.001	Data
61.75	71.069	6.590	57.010	58.751	43.995	Data
63	71.245	6.541	57.013	58.75	43.995	Data
63	70.672	6.537	57.010	58.744	44.002	Data
63	71.283	6.615	57.008	58.745	44.001	Data
63	71.069	6.590	57.010	58.751	43.995	Data
64	71.245	6.541	57.013	58.75	43.995	Data
64	71.283	6.615	57.008	58.745	44.001	Data
64	70.672	6.537	57.010	58.744	44.002	Data
64	71.069	6.590	57.010	58.751	43.995	Data

Table 59: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.747	6.547	56.989	59.755	44.011	Data
8	70.763	6.507	56.990	59.754	44.011	Data
30	69.829	6.516	57.011	59.752	43.967	Data
30	69.969	6.508	57.006	59.751	43.967	Data
30	70.763	6.507	56.990	59.754	44.011	Data
30	70.343	6.482	57.009	59.763	44.000	Data
30	70.623	6.502	56.995	59.763	44.000	Data
30	71.216	6.453	56.989	59.743	43.995	Data
30	71.127	6.562	57.003	59.746	43.994	Data
30	69.747	6.547	56.989	59.755	44.011	Data
30	70.772	6.552	57.014	59.746	43.995	Data
30	70.501	6.490	56.986	59.742	43.994	Data
42	70.623	6.502	56.995	59.763	44.000	Data
42	70.343	6.482	57.009	59.763	44.000	Data
43	70.623	6.502	56.995	59.763	44.000	Data
43	70.343	6.482	57.009	59.763	44.000	Data
44	70.343	6.482	57.009	59.763	44.000	Data
44	70.623	6.502	56.995	59.763	44.000	Data
45	70.623	6.502	56.995	59.763	44.000	Data
45	70.343	6.482	57.009	59.763	44.000	Data
46.5	70.763	6.507	56.990	59.754	44.011	Data
46.5	69.747	6.547	56.989	59.755	44.011	Data
48	69.969	6.508	57.006	59.751	43.967	Data
48	69.829	6.516	57.011	59.752	43.967	Data
49	69.969	6.508	57.006	59.751	43.967	Data
49	69.829	6.516	57.011	59.752	43.967	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	69.969	6.508	57.006	59.751	43.967	Data
50	69.829	6.516	57.011	59.752	43.967	Data
51	69.969	6.508	57.006	59.751	43.967	Data
51	69.829	6.516	57.011	59.752	43.967	Data
52.5	70.763	6.507	56.990	59.754	44.011	Data
52.5	69.747	6.547	56.989	59.755	44.011	Data
54	71.216	6.453	56.989	59.743	43.995	Data
54	70.501	6.490	56.986	59.742	43.994	Data
55	71.216	6.453	56.989	59.743	43.995	Data
55	70.501	6.490	56.986	59.742	43.994	Data
56	71.216	6.453	56.989	59.743	43.995	Data
56	70.501	6.490	56.986	59.742	43.994	Data
57	71.216	6.453	56.989	59.743	43.995	Data
57	70.501	6.490	56.986	59.742	43.994	Data
58.5	69.747	6.547	56.989	59.755	44.011	Data
58.5	70.763	6.507	56.990	59.754	44.011	Data
60.5	70.772	6.552	57.014	59.746	43.995	Data
60.5	71.127	6.562	57.003	59.746	43.994	Data
61.75	70.772	6.552	57.014	59.746	43.995	Data
61.75	71.127	6.562	57.003	59.746	43.994	Data
63	70.772	6.552	57.014	59.746	43.995	Data
63	71.127	6.562	57.003	59.746	43.994	Data
64	70.772	6.552	57.014	59.746	43.995	Data
64	71.127	6.562	57.003	59.746	43.994	Data

Table 60: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.283	6.516	56.983	60.767	44.013	Data
8	70.468	6.564	56.986	60.767	44.013	Data
30	71.555	6.504	56.985	60.75	43.994	Data
30	69.568	6.531	56.994	60.759	43.968	Data
30	70.283	6.516	56.983	60.767	44.013	Data
30	70.976	6.519	56.999	60.757	44.001	Data
30	69.964	6.534	56.995	60.758	43.969	Data
30	70.477	6.549	57.008	60.755	43.994	Data
30	71.301	6.528	56.989	60.752	43.994	Data
30	70.468	6.564	56.986	60.767	44.013	Data
30	70.752	6.583	57.013	60.755	43.994	Data
30	70.938	6.518	57.002	60.756	44.001	Data
42	70.976	6.519	56.999	60.757	44.001	Data
42	70.938	6.518	57.002	60.756	44.001	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	70.976	6.519	56.999	60.757	44.001	Data
43	70.938	6.518	57.002	60.756	44.001	Data
44	70.976	6.519	56.999	60.757	44.001	Data
44	70.938	6.518	57.002	60.756	44.001	Data
45	70.976	6.519	56.999	60.757	44.001	Data
45	70.938	6.518	57.002	60.756	44.001	Data
46.5	70.283	6.516	56.983	60.767	44.013	Data
46.5	70.468	6.564	56.986	60.767	44.013	Data
48	69.964	6.534	56.995	60.758	43.969	Data
48	69.568	6.531	56.994	60.759	43.968	Data
49	69.964	6.534	56.995	60.758	43.969	Data
49	69.568	6.531	56.994	60.759	43.968	Data
50	69.964	6.534	56.995	60.758	43.969	Data
50	69.568	6.531	56.994	60.759	43.968	Data
51	69.964	6.534	56.995	60.758	43.969	Data
51	69.568	6.531	56.994	60.759	43.968	Data
52.5	70.283	6.516	56.983	60.767	44.013	Data
52.5	70.468	6.564	56.986	60.767	44.013	Data
54	71.555	6.504	56.985	60.75	43.994	Data
54	71.301	6.528	56.989	60.752	43.994	Data
55	71.555	6.504	56.985	60.75	43.994	Data
55	71.301	6.528	56.989	60.752	43.994	Data
56	71.555	6.504	56.985	60.75	43.994	Data
56	71.301	6.528	56.989	60.752	43.994	Data
57	71.555	6.504	56.985	60.75	43.994	Data
57	71.301	6.528	56.989	60.752	43.994	Data
58.5	70.283	6.516	56.983	60.767	44.013	Data
58.5	70.468	6.564	56.986	60.767	44.013	Data
60.5	70.752	6.583	57.013	60.755	43.994	Data
60.5	70.477	6.549	57.008	60.755	43.994	Data
61.75	70.752	6.583	57.013	60.755	43.994	Data
61.75	70.477	6.549	57.008	60.755	43.994	Data
63	70.477	6.549	57.008	60.755	43.994	Data
63	70.752	6.583	57.013	60.755	43.994	Data
64	70.477	6.549	57.008	60.755	43.994	Data
64	70.752	6.583	57.013	60.755	43.994	Data

Table 61: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)

D.7. Horizontal VG vortex sweep at height z=42, q=70, α_{VG}=4, α_W=7, RO-tip

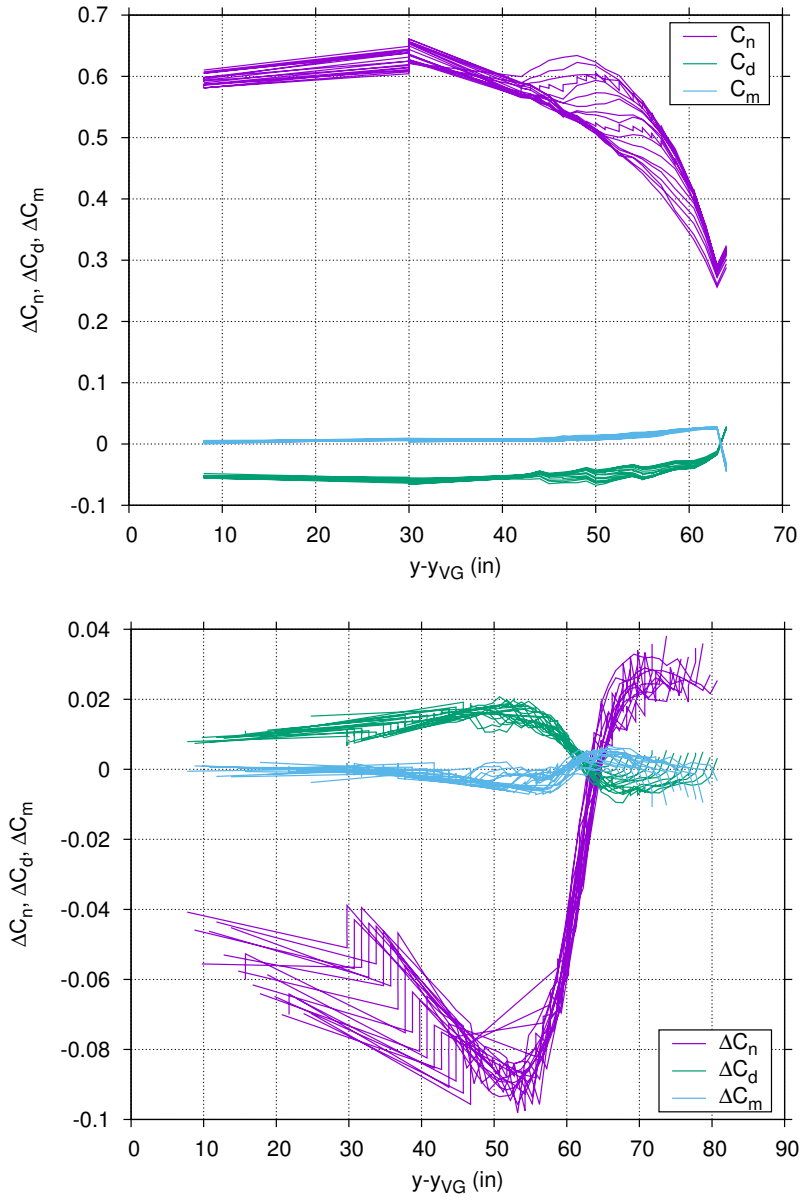

Figure 60. VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — (Data)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.139	6.545	57.048	43.761	41.972	Data
8	69.511	6.522	57.054	43.76	41.998	Data
30	69.400	6.512	57.049	43.751	41.992	Data
30	69.039	6.508	57.003	43.754	41.988	Data
30	70.427	6.532	56.994	43.746	41.998	Data
30	70.261	6.491	57.011	43.749	41.992	Data
30	70.807	6.502	56.994	43.747	41.996	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.897	6.535	57.006	43.749	41.992	Data
30	69.720	6.511	57.060	43.75	41.991	Data
30	69.197	6.589	57.010	43.754	41.989	Data
30	69.511	6.522	57.054	43.76	41.998	Data
30	70.139	6.545	57.048	43.761	41.972	Data
42	70.427	6.532	56.994	43.746	41.998	Data
42	70.807	6.502	56.994	43.747	41.996	Data
43	70.427	6.532	56.994	43.746	41.998	Data
43	70.807	6.502	56.994	43.747	41.996	Data
44	70.427	6.532	56.994	43.746	41.998	Data
44	70.807	6.502	56.994	43.747	41.996	Data
45	70.427	6.532	56.994	43.746	41.998	Data
45	70.807	6.502	56.994	43.747	41.996	Data
46.5	69.511	6.522	57.054	43.76	41.998	Data
46.5	70.139	6.545	57.048	43.761	41.972	Data
48	69.039	6.508	57.003	43.754	41.988	Data
48	69.197	6.589	57.010	43.754	41.989	Data
49	69.039	6.508	57.003	43.754	41.988	Data
49	69.197	6.589	57.010	43.754	41.989	Data
50	69.039	6.508	57.003	43.754	41.988	Data
50	69.197	6.589	57.010	43.754	41.989	Data
51	69.039	6.508	57.003	43.754	41.988	Data
51	69.197	6.589	57.010	43.754	41.989	Data
52.5	69.511	6.522	57.054	43.76	41.998	Data
52.5	70.139	6.545	57.048	43.761	41.972	Data
54	70.261	6.491	57.011	43.749	41.992	Data
54	69.897	6.535	57.006	43.749	41.992	Data
55	70.261	6.491	57.011	43.749	41.992	Data
55	69.897	6.535	57.006	43.749	41.992	Data
56	69.897	6.535	57.006	43.749	41.992	Data
56	70.261	6.491	57.011	43.749	41.992	Data
57	69.897	6.535	57.006	43.749	41.992	Data
57	70.261	6.491	57.011	43.749	41.992	Data
58.5	69.511	6.522	57.054	43.76	41.998	Data
58.5	70.139	6.545	57.048	43.761	41.972	Data
60.5	69.400	6.512	57.049	43.751	41.992	Data
60.5	69.720	6.511	57.060	43.75	41.991	Data
61.75	69.400	6.512	57.049	43.751	41.992	Data
61.75	69.720	6.511	57.060	43.75	41.991	Data
63	69.400	6.512	57.049	43.751	41.992	Data
63	69.720	6.511	57.060	43.75	41.991	Data
64	69.400	6.512	57.049	43.751	41.992	Data
64	69.720	6.511	57.060	43.75	41.991	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 62: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.676	6.535	57.053	44.745	42.008	Data
8	69.608	6.514	57.046	44.744	42.009	Data
30	69.608	6.514	57.046	44.744	42.009	Data
30	69.297	6.506	57.050	44.749	41.989	Data
30	69.538	6.525	57.010	44.742	41.991	Data
30	70.269	6.538	57.005	44.743	41.991	Data
30	70.360	6.489	56.994	44.753	42.002	Data
30	70.209	6.526	56.995	44.753	42.002	Data
30	69.811	6.500	57.048	44.748	41.990	Data
30	68.858	6.467	57.016	44.748	41.988	Data
30	69.676	6.535	57.053	44.745	42.008	Data
30	69.667	6.497	57.012	44.749	41.989	Data
42	70.209	6.526	56.995	44.753	42.002	Data
42	70.360	6.489	56.994	44.753	42.002	Data
43	70.209	6.526	56.995	44.753	42.002	Data
43	70.360	6.489	56.994	44.753	42.002	Data
44	70.209	6.526	56.995	44.753	42.002	Data
44	70.360	6.489	56.994	44.753	42.002	Data
45	70.209	6.526	56.995	44.753	42.002	Data
45	70.360	6.489	56.994	44.753	42.002	Data
46.5	69.676	6.535	57.053	44.745	42.008	Data
46.5	69.608	6.514	57.046	44.744	42.009	Data
48	69.667	6.497	57.012	44.749	41.989	Data
48	68.858	6.467	57.016	44.748	41.988	Data
49	69.667	6.497	57.012	44.749	41.989	Data
49	68.858	6.467	57.016	44.748	41.988	Data
50	69.667	6.497	57.012	44.749	41.989	Data
50	68.858	6.467	57.016	44.748	41.988	Data
51	69.667	6.497	57.012	44.749	41.989	Data
51	68.858	6.467	57.016	44.748	41.988	Data
52.5	69.676	6.535	57.053	44.745	42.008	Data
52.5	69.608	6.514	57.046	44.744	42.009	Data
54	69.538	6.525	57.010	44.742	41.991	Data
54	70.269	6.538	57.005	44.743	41.991	Data
55	69.538	6.525	57.010	44.742	41.991	Data
55	70.269	6.538	57.005	44.743	41.991	Data
56	69.538	6.525	57.010	44.742	41.991	Data
56	70.269	6.538	57.005	44.743	41.991	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	69.538	6.525	57.010	44.742	41.991	Data
57	70.269	6.538	57.005	44.743	41.991	Data
58.5	69.676	6.535	57.053	44.745	42.008	Data
58.5	69.608	6.514	57.046	44.744	42.009	Data
60.5	69.297	6.506	57.050	44.749	41.989	Data
60.5	69.811	6.500	57.048	44.748	41.990	Data
61.75	69.297	6.506	57.050	44.749	41.989	Data
61.75	69.811	6.500	57.048	44.748	41.990	Data
63	69.297	6.506	57.050	44.749	41.989	Data
63	69.811	6.500	57.048	44.748	41.990	Data
64	69.297	6.506	57.050	44.749	41.989	Data
64	69.811	6.500	57.048	44.748	41.990	Data

Table 63: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.582	6.524	57.056	45.741	42.008	Data
8	69.995	6.527	57.051	45.74	42.008	Data
30	69.995	6.527	57.051	45.74	42.008	Data
30	69.282	6.497	57.001	45.752	42.001	Data
30	68.848	6.499	57.018	45.738	41.990	Data
30	69.190	6.525	57.042	45.752	41.989	Data
30	68.873	6.528	57.012	45.738	41.989	Data
30	70.548	6.500	57.001	45.752	41.997	Data
30	70.234	6.508	57.012	45.737	41.990	Data
30	69.336	6.483	57.044	45.753	41.989	Data
30	69.582	6.524	57.056	45.741	42.008	Data
30	69.918	6.479	57.010	45.739	41.990	Data
42	70.548	6.500	57.001	45.752	41.997	Data
42	69.282	6.497	57.001	45.752	42.001	Data
43	70.548	6.500	57.001	45.752	41.997	Data
43	69.282	6.497	57.001	45.752	42.001	Data
44	70.548	6.500	57.001	45.752	41.997	Data
44	69.282	6.497	57.001	45.752	42.001	Data
45	70.548	6.500	57.001	45.752	41.997	Data
45	69.282	6.497	57.001	45.752	42.001	Data
46.5	69.995	6.527	57.051	45.74	42.008	Data
46.5	69.582	6.524	57.056	45.741	42.008	Data
48	68.848	6.499	57.018	45.738	41.990	Data
48	68.873	6.528	57.012	45.738	41.989	Data
49	68.848	6.499	57.018	45.738	41.990	Data
49	68.873	6.528	57.012	45.738	41.989	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	68.848	6.499	57.018	45.738	41.990	Data
50	68.873	6.528	57.012	45.738	41.989	Data
51	68.848	6.499	57.018	45.738	41.990	Data
51	68.873	6.528	57.012	45.738	41.989	Data
52.5	69.995	6.527	57.051	45.74	42.008	Data
52.5	69.582	6.524	57.056	45.741	42.008	Data
54	70.234	6.508	57.012	45.737	41.990	Data
54	69.918	6.479	57.010	45.739	41.990	Data
55	70.234	6.508	57.012	45.737	41.990	Data
55	69.918	6.479	57.010	45.739	41.990	Data
56	70.234	6.508	57.012	45.737	41.990	Data
56	69.918	6.479	57.010	45.739	41.990	Data
57	70.234	6.508	57.012	45.737	41.990	Data
57	69.918	6.479	57.010	45.739	41.990	Data
58.5	69.995	6.527	57.051	45.74	42.008	Data
58.5	69.582	6.524	57.056	45.741	42.008	Data
60.5	69.336	6.483	57.044	45.753	41.989	Data
60.5	69.190	6.525	57.042	45.752	41.989	Data
61.75	69.336	6.483	57.044	45.753	41.989	Data
61.75	69.190	6.525	57.042	45.752	41.989	Data
63	69.336	6.483	57.044	45.753	41.989	Data
63	69.190	6.525	57.042	45.752	41.989	Data
64	69.190	6.525	57.042	45.752	41.989	Data
64	69.336	6.483	57.044	45.753	41.989	Data

Table 64: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=45.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.357	6.514	57.044	46.74	42.008	Data
8	69.201	6.499	57.051	46.739	42.009	Data
8	69.922	6.487	57.026	46.747	41.986	Data
8	69.783	6.477	57.017	46.747	41.996	Data
30	68.465	6.533	57.058	46.746	42.004	Data
30	69.649	6.425	57.010	46.742	41.991	Data
30	69.357	6.514	57.044	46.74	42.008	Data
30	68.864	6.536	57.013	46.748	41.990	Data
30	70.518	6.568	56.998	46.749	41.997	Data
30	70.059	6.483	56.996	46.747	41.956	Data
30	70.013	6.470	57.013	46.741	41.993	Data
30	69.073	6.474	57.039	46.757	41.999	Data
30	69.922	6.487	57.026	46.747	41.986	Data
30	69.262	6.536	57.052	46.745	42.004	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.783	6.477	57.017	46.747	41.996	Data
30	69.168	6.506	57.046	46.759	41.996	Data
30	70.467	6.454	56.975	46.743	41.998	Data
30	69.523	6.592	57.009	46.742	42.022	Data
30	69.898	6.552	57.009	46.742	41.990	Data
30	70.119	6.517	57.000	46.747	41.956	Data
30	69.095	6.520	57.005	46.746	41.989	Data
30	70.295	6.547	56.995	46.75	41.999	Data
30	69.201	6.499	57.051	46.739	42.009	Data
30	69.805	6.516	56.984	46.743	41.989	Data
42	70.059	6.483	56.996	46.747	41.956	Data
42	70.518	6.568	56.998	46.749	41.997	Data
42	70.119	6.517	57.000	46.747	41.956	Data
42	70.295	6.547	56.995	46.75	41.999	Data
43	70.059	6.483	56.996	46.747	41.956	Data
43	70.518	6.568	56.998	46.749	41.997	Data
43	70.295	6.547	56.995	46.75	41.999	Data
43	70.119	6.517	57.000	46.747	41.956	Data
44	70.059	6.483	56.996	46.747	41.956	Data
44	70.518	6.568	56.998	46.749	41.997	Data
44	70.295	6.547	56.995	46.75	41.999	Data
44	70.119	6.517	57.000	46.747	41.956	Data
45	70.059	6.483	56.996	46.747	41.956	Data
45	70.518	6.568	56.998	46.749	41.997	Data
45	70.295	6.547	56.995	46.75	41.999	Data
45	70.119	6.517	57.000	46.747	41.956	Data
46.5	69.357	6.514	57.044	46.74	42.008	Data
46.5	69.783	6.477	57.017	46.747	41.996	Data
46.5	69.922	6.487	57.026	46.747	41.986	Data
46.5	69.201	6.499	57.051	46.739	42.009	Data
48	68.864	6.536	57.013	46.748	41.990	Data
48	68.465	6.533	57.058	46.746	42.004	Data
48	69.095	6.520	57.005	46.746	41.989	Data
48	69.262	6.536	57.052	46.745	42.004	Data
49	68.864	6.536	57.013	46.748	41.990	Data
49	68.465	6.533	57.058	46.746	42.004	Data
49	69.095	6.520	57.005	46.746	41.989	Data
49	69.262	6.536	57.052	46.745	42.004	Data
50	68.864	6.536	57.013	46.748	41.990	Data
50	68.465	6.533	57.058	46.746	42.004	Data
50	69.095	6.520	57.005	46.746	41.989	Data
50	69.262	6.536	57.052	46.745	42.004	Data
51	68.864	6.536	57.013	46.748	41.990	Data
51	68.465	6.533	57.058	46.746	42.004	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	69.095	6.520	57.005	46.746	41.989	Data
51	69.262	6.536	57.052	46.745	42.004	Data
52.5	69.783	6.477	57.017	46.747	41.996	Data
52.5	69.357	6.514	57.044	46.74	42.008	Data
52.5	69.922	6.487	57.026	46.747	41.986	Data
52.5	69.201	6.499	57.051	46.739	42.009	Data
54	69.898	6.552	57.009	46.742	41.990	Data
54	69.649	6.425	57.010	46.742	41.991	Data
54	70.467	6.454	56.975	46.743	41.998	Data
54	69.805	6.516	56.984	46.743	41.989	Data
55	69.898	6.552	57.009	46.742	41.990	Data
55	69.649	6.425	57.010	46.742	41.991	Data
55	70.467	6.454	56.975	46.743	41.998	Data
55	69.805	6.516	56.984	46.743	41.989	Data
56	69.649	6.425	57.010	46.742	41.991	Data
56	69.898	6.552	57.009	46.742	41.990	Data
56	70.467	6.454	56.975	46.743	41.998	Data
56	69.805	6.516	56.984	46.743	41.989	Data
57	69.649	6.425	57.010	46.742	41.991	Data
57	69.898	6.552	57.009	46.742	41.990	Data
57	70.467	6.454	56.975	46.743	41.998	Data
57	69.805	6.516	56.984	46.743	41.989	Data
58.5	69.783	6.477	57.017	46.747	41.996	Data
58.5	69.357	6.514	57.044	46.74	42.008	Data
58.5	69.922	6.487	57.026	46.747	41.986	Data
58.5	69.201	6.499	57.051	46.739	42.009	Data
60.5	69.523	6.592	57.009	46.742	42.022	Data
60.5	69.168	6.506	57.046	46.759	41.996	Data
60.5	69.073	6.474	57.039	46.757	41.999	Data
60.5	70.013	6.470	57.013	46.741	41.993	Data
61.75	69.523	6.592	57.009	46.742	42.022	Data
61.75	69.168	6.506	57.046	46.759	41.996	Data
61.75	70.013	6.470	57.013	46.741	41.993	Data
61.75	69.073	6.474	57.039	46.757	41.999	Data
63	69.523	6.592	57.009	46.742	42.022	Data
63	69.168	6.506	57.046	46.759	41.996	Data
63	70.013	6.470	57.013	46.741	41.993	Data
63	69.073	6.474	57.039	46.757	41.999	Data
64	69.523	6.592	57.009	46.742	42.022	Data
64	70.013	6.470	57.013	46.741	41.993	Data
64	69.168	6.506	57.046	46.759	41.996	Data
64	69.073	6.474	57.039	46.757	41.999	Data

Table 65: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.594	6.536	57.048	47.745	42.008	Data
8	69.786	6.497	57.055	47.743	42.009	Data
30	70.241	6.536	56.996	47.739	41.995	Data
30	68.958	6.506	57.010	47.745	41.990	Data
30	70.085	6.532	56.998	47.74	41.995	Data
30	69.882	6.554	57.007	47.745	41.990	Data
30	69.594	6.536	57.048	47.745	42.008	Data
30	69.419	6.550	57.041	47.755	41.991	Data
30	69.786	6.497	57.055	47.743	42.009	Data
30	69.611	6.449	57.009	47.747	41.990	Data
30	69.517	6.498	57.031	47.756	41.989	Data
30	68.596	6.483	57.009	47.749	41.988	Data
42	70.241	6.536	56.996	47.739	41.995	Data
42	70.085	6.532	56.998	47.74	41.995	Data
43	70.241	6.536	56.996	47.739	41.995	Data
43	70.085	6.532	56.998	47.74	41.995	Data
44	70.241	6.536	56.996	47.739	41.995	Data
44	70.085	6.532	56.998	47.74	41.995	Data
45	70.241	6.536	56.996	47.739	41.995	Data
45	70.085	6.532	56.998	47.74	41.995	Data
46.5	69.594	6.536	57.048	47.745	42.008	Data
46.5	69.786	6.497	57.055	47.743	42.009	Data
48	69.611	6.449	57.009	47.747	41.990	Data
48	68.596	6.483	57.009	47.749	41.988	Data
49	69.611	6.449	57.009	47.747	41.990	Data
49	68.596	6.483	57.009	47.749	41.988	Data
50	69.611	6.449	57.009	47.747	41.990	Data
50	68.596	6.483	57.009	47.749	41.988	Data
51	69.611	6.449	57.009	47.747	41.990	Data
51	68.596	6.483	57.009	47.749	41.988	Data
52.5	69.594	6.536	57.048	47.745	42.008	Data
52.5	69.786	6.497	57.055	47.743	42.009	Data
54	69.882	6.554	57.007	47.745	41.990	Data
54	68.958	6.506	57.010	47.745	41.990	Data
55	69.882	6.554	57.007	47.745	41.990	Data
55	68.958	6.506	57.010	47.745	41.990	Data
56	69.882	6.554	57.007	47.745	41.990	Data
56	68.958	6.506	57.010	47.745	41.990	Data
57	69.882	6.554	57.007	47.745	41.990	Data
57	68.958	6.506	57.010	47.745	41.990	Data
58.5	69.594	6.536	57.048	47.745	42.008	Data
58.5	69.786	6.497	57.055	47.743	42.009	Data
60.5	69.419	6.550	57.041	47.755	41.991	Data
60.5	69.517	6.498	57.031	47.756	41.989	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.419	6.550	57.041	47.755	41.991	Data
61.75	69.517	6.498	57.031	47.756	41.989	Data
63	69.419	6.550	57.041	47.755	41.991	Data
63	69.517	6.498	57.031	47.756	41.989	Data
64	69.419	6.550	57.041	47.755	41.991	Data
64	69.517	6.498	57.031	47.756	41.989	Data

Table 66: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=47.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.337	6.533	57.053	48.745	42.008	Data
8	69.557	6.538	57.049	48.746	42.007	Data
30	69.477	6.458	57.033	48.759	41.987	Data
30	68.945	6.525	57.004	48.745	41.990	Data
30	69.313	6.516	57.006	48.745	41.990	Data
30	69.246	6.535	57.034	48.76	41.987	Data
30	68.823	6.541	57.005	48.75	41.989	Data
30	70.599	6.477	56.994	48.742	41.999	Data
30	68.874	6.523	57.010	48.748	41.989	Data
30	69.557	6.538	57.049	48.746	42.007	Data
30	69.337	6.533	57.053	48.745	42.008	Data
30	69.689	6.510	56.993	48.742	41.997	Data
42	69.689	6.510	56.993	48.742	41.997	Data
42	70.599	6.477	56.994	48.742	41.999	Data
43	69.689	6.510	56.993	48.742	41.997	Data
43	70.599	6.477	56.994	48.742	41.999	Data
44	69.689	6.510	56.993	48.742	41.997	Data
44	70.599	6.477	56.994	48.742	41.999	Data
45	69.689	6.510	56.993	48.742	41.997	Data
45	70.599	6.477	56.994	48.742	41.999	Data
46.5	69.337	6.533	57.053	48.745	42.008	Data
46.5	69.557	6.538	57.049	48.746	42.007	Data
48	68.874	6.523	57.010	48.748	41.989	Data
48	68.823	6.541	57.005	48.75	41.989	Data
49	68.874	6.523	57.010	48.748	41.989	Data
49	68.823	6.541	57.005	48.75	41.989	Data
50	68.874	6.523	57.010	48.748	41.989	Data
50	68.823	6.541	57.005	48.75	41.989	Data
51	68.874	6.523	57.010	48.748	41.989	Data
51	68.823	6.541	57.005	48.75	41.989	Data
52.5	69.337	6.533	57.053	48.745	42.008	Data
52.5	69.557	6.538	57.049	48.746	42.007	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	68.945	6.525	57.004	48.745	41.990	Data
54	69.313	6.516	57.006	48.745	41.990	Data
55	68.945	6.525	57.004	48.745	41.990	Data
55	69.313	6.516	57.006	48.745	41.990	Data
56	68.945	6.525	57.004	48.745	41.990	Data
56	69.313	6.516	57.006	48.745	41.990	Data
57	68.945	6.525	57.004	48.745	41.990	Data
57	69.313	6.516	57.006	48.745	41.990	Data
58.5	69.337	6.533	57.053	48.745	42.008	Data
58.5	69.557	6.538	57.049	48.746	42.007	Data
60.5	69.477	6.458	57.033	48.759	41.987	Data
60.5	69.246	6.535	57.034	48.76	41.987	Data
61.75	69.477	6.458	57.033	48.759	41.987	Data
61.75	69.246	6.535	57.034	48.76	41.987	Data
63	69.477	6.458	57.033	48.759	41.987	Data
63	69.246	6.535	57.034	48.76	41.987	Data
64	69.477	6.458	57.033	48.759	41.987	Data
64	69.246	6.535	57.034	48.76	41.987	Data

Table 67: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.569	6.578	57.056	49.752	42.007	Data
8	70.148	6.571	57.053	49.75	42.008	Data
30	70.080	6.542	56.993	49.743	41.997	Data
30	69.591	6.552	57.009	49.756	41.989	Data
30	70.333	6.512	57.007	49.748	41.990	Data
30	69.513	6.554	57.006	49.748	41.989	Data
30	69.099	6.454	57.038	49.746	41.985	Data
30	69.358	6.535	57.008	49.755	41.991	Data
30	69.899	6.552	56.997	49.743	41.996	Data
30	69.695	6.535	57.019	49.744	41.985	Data
30	70.148	6.571	57.053	49.75	42.008	Data
30	69.569	6.578	57.056	49.752	42.007	Data
42	70.080	6.542	56.993	49.743	41.997	Data
42	69.899	6.552	56.997	49.743	41.996	Data
43	70.080	6.542	56.993	49.743	41.997	Data
43	69.899	6.552	56.997	49.743	41.996	Data
44	70.080	6.542	56.993	49.743	41.997	Data
44	69.899	6.552	56.997	49.743	41.996	Data
45	70.080	6.542	56.993	49.743	41.997	Data
45	69.899	6.552	56.997	49.743	41.996	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.148	6.571	57.053	49.75	42.008	Data
46.5	69.569	6.578	57.056	49.752	42.007	Data
48	69.591	6.552	57.009	49.756	41.989	Data
48	69.358	6.535	57.008	49.755	41.991	Data
49	69.591	6.552	57.009	49.756	41.989	Data
49	69.358	6.535	57.008	49.755	41.991	Data
50	69.591	6.552	57.009	49.756	41.989	Data
50	69.358	6.535	57.008	49.755	41.991	Data
51	69.591	6.552	57.009	49.756	41.989	Data
51	69.358	6.535	57.008	49.755	41.991	Data
52.5	70.148	6.571	57.053	49.75	42.008	Data
52.5	69.569	6.578	57.056	49.752	42.007	Data
54	70.333	6.512	57.007	49.748	41.990	Data
54	69.513	6.554	57.006	49.748	41.989	Data
55	70.333	6.512	57.007	49.748	41.990	Data
55	69.513	6.554	57.006	49.748	41.989	Data
56	70.333	6.512	57.007	49.748	41.990	Data
56	69.513	6.554	57.006	49.748	41.989	Data
57	70.333	6.512	57.007	49.748	41.990	Data
57	69.513	6.554	57.006	49.748	41.989	Data
58.5	70.148	6.571	57.053	49.75	42.008	Data
58.5	69.569	6.578	57.056	49.752	42.007	Data
60.5	69.099	6.454	57.038	49.746	41.985	Data
60.5	69.695	6.535	57.019	49.744	41.985	Data
61.75	69.099	6.454	57.038	49.746	41.985	Data
61.75	69.695	6.535	57.019	49.744	41.985	Data
63	69.099	6.454	57.038	49.746	41.985	Data
63	69.695	6.535	57.019	49.744	41.985	Data
64	69.099	6.454	57.038	49.746	41.985	Data
64	69.695	6.535	57.019	49.744	41.985	Data

Table 68: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=49.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.643	6.578	57.057	50.753	42.007	Data
8	70.174	6.526	57.051	50.751	42.008	Data
30	69.746	6.471	57.003	50.747	41.989	Data
30	69.609	6.517	57.007	50.747	41.990	Data
30	70.643	6.578	57.057	50.753	42.007	Data
30	70.773	6.494	56.995	50.742	41.994	Data
30	70.174	6.526	57.051	50.751	42.008	Data
30	69.059	6.489	57.017	50.755	41.989	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.942	6.490	56.997	50.742	41.997	Data
30	69.496	6.433	57.027	50.754	41.984	Data
30	69.155	6.443	57.031	50.756	41.983	Data
30	68.603	6.525	57.009	50.755	41.989	Data
42	70.773	6.494	56.995	50.742	41.994	Data
42	70.942	6.490	56.997	50.742	41.997	Data
43	70.773	6.494	56.995	50.742	41.994	Data
43	70.942	6.490	56.997	50.742	41.997	Data
44	70.773	6.494	56.995	50.742	41.994	Data
44	70.942	6.490	56.997	50.742	41.997	Data
45	70.773	6.494	56.995	50.742	41.994	Data
45	70.942	6.490	56.997	50.742	41.997	Data
46.5	70.643	6.578	57.057	50.753	42.007	Data
46.5	70.174	6.526	57.051	50.751	42.008	Data
48	68.603	6.525	57.009	50.755	41.989	Data
48	69.059	6.489	57.017	50.755	41.989	Data
49	68.603	6.525	57.009	50.755	41.989	Data
49	69.059	6.489	57.017	50.755	41.989	Data
50	68.603	6.525	57.009	50.755	41.989	Data
50	69.059	6.489	57.017	50.755	41.989	Data
51	68.603	6.525	57.009	50.755	41.989	Data
51	69.059	6.489	57.017	50.755	41.989	Data
52.5	70.643	6.578	57.057	50.753	42.007	Data
52.5	70.174	6.526	57.051	50.751	42.008	Data
54	69.746	6.471	57.003	50.747	41.989	Data
54	69.609	6.517	57.007	50.747	41.990	Data
55	69.746	6.471	57.003	50.747	41.989	Data
55	69.609	6.517	57.007	50.747	41.990	Data
56	69.746	6.471	57.003	50.747	41.989	Data
56	69.609	6.517	57.007	50.747	41.990	Data
57	69.746	6.471	57.003	50.747	41.989	Data
57	69.609	6.517	57.007	50.747	41.990	Data
58.5	70.643	6.578	57.057	50.753	42.007	Data
58.5	70.174	6.526	57.051	50.751	42.008	Data
60.5	69.155	6.443	57.031	50.756	41.983	Data
60.5	69.496	6.433	57.027	50.754	41.984	Data
61.75	69.155	6.443	57.031	50.756	41.983	Data
61.75	69.496	6.433	57.027	50.754	41.984	Data
63	69.155	6.443	57.031	50.756	41.983	Data
63	69.496	6.433	57.027	50.754	41.984	Data
64	69.155	6.443	57.031	50.756	41.983	Data
64	69.496	6.433	57.027	50.754	41.984	Data

Table 69: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.804	6.594	57.054	51.753	42.007	Data
8	70.071	6.474	57.058	51.754	42.008	Data
30	69.365	6.492	57.007	51.746	41.989	Data
30	69.804	6.594	57.054	51.753	42.007	Data
30	68.964	6.514	57.026	51.753	41.982	Data
30	70.071	6.474	57.058	51.754	42.008	Data
30	68.401	6.548	57.021	51.749	41.988	Data
30	71.009	6.505	56.996	51.746	41.996	Data
30	69.144	6.514	57.013	51.75	41.989	Data
30	70.196	6.490	57.001	51.747	41.995	Data
30	70.237	6.474	57.026	51.753	41.983	Data
30	69.715	6.542	57.004	51.746	41.989	Data
42	71.009	6.505	56.996	51.746	41.996	Data
42	70.196	6.490	57.001	51.747	41.995	Data
43	71.009	6.505	56.996	51.746	41.996	Data
43	70.196	6.490	57.001	51.747	41.995	Data
44	71.009	6.505	56.996	51.746	41.996	Data
44	70.196	6.490	57.001	51.747	41.995	Data
45	71.009	6.505	56.996	51.746	41.996	Data
45	70.196	6.490	57.001	51.747	41.995	Data
46.5	69.804	6.594	57.054	51.753	42.007	Data
46.5	70.071	6.474	57.058	51.754	42.008	Data
48	69.144	6.514	57.013	51.75	41.989	Data
48	68.401	6.548	57.021	51.749	41.988	Data
49	69.144	6.514	57.013	51.75	41.989	Data
49	68.401	6.548	57.021	51.749	41.988	Data
50	69.144	6.514	57.013	51.75	41.989	Data
50	68.401	6.548	57.021	51.749	41.988	Data
51	69.144	6.514	57.013	51.75	41.989	Data
51	68.401	6.548	57.021	51.749	41.988	Data
52.5	69.804	6.594	57.054	51.753	42.007	Data
52.5	70.071	6.474	57.058	51.754	42.008	Data
54	69.715	6.542	57.004	51.746	41.989	Data
54	69.365	6.492	57.007	51.746	41.989	Data
55	69.715	6.542	57.004	51.746	41.989	Data
55	69.365	6.492	57.007	51.746	41.989	Data
56	69.715	6.542	57.004	51.746	41.989	Data
56	69.365	6.492	57.007	51.746	41.989	Data
57	69.365	6.492	57.007	51.746	41.989	Data
57	69.715	6.542	57.004	51.746	41.989	Data
58.5	69.804	6.594	57.054	51.753	42.007	Data
58.5	70.071	6.474	57.058	51.754	42.008	Data
60.5	68.964	6.514	57.026	51.753	41.982	Data
60.5	70.237	6.474	57.026	51.753	41.983	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	68.964	6.514	57.026	51.753	41.982	Data
61.75	70.237	6.474	57.026	51.753	41.983	Data
63	68.964	6.514	57.026	51.753	41.982	Data
63	70.237	6.474	57.026	51.753	41.983	Data
64	68.964	6.514	57.026	51.753	41.982	Data
64	70.237	6.474	57.026	51.753	41.983	Data

Table 70: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=51.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.799	6.474	57.060	52.753	42.007	Data
8	70.272	6.453	57.065	52.752	42.008	Data
8	69.925	6.484	57.046	52.749	42.000	Data
8	69.815	6.541	57.048	52.749	42.002	Data
30	70.516	6.564	57.068	52.746	42.004	Data
30	70.667	6.500	57.062	52.746	41.977	Data
30	69.925	6.484	57.046	52.749	42.000	Data
30	70.197	6.540	57.013	52.749	41.961	Data
30	69.781	6.575	57.039	52.748	41.982	Data
30	70.591	6.490	57.030	52.748	41.981	Data
30	70.394	6.500	57.010	52.749	41.988	Data
30	69.799	6.474	57.060	52.753	42.007	Data
30	70.102	6.563	57.009	52.749	41.987	Data
30	68.557	6.464	57.014	52.745	41.982	Data
30	68.650	6.514	57.019	52.747	41.990	Data
30	70.272	6.453	57.065	52.752	42.008	Data
30	70.141	6.557	57.005	52.749	41.960	Data
30	70.747	6.497	57.014	52.74	42.001	Data
30	71.275	6.548	56.991	52.753	41.996	Data
30	68.807	6.566	57.011	52.746	41.982	Data
30	69.036	6.480	57.014	52.745	41.989	Data
30	71.325	6.535	56.994	52.752	41.994	Data
30	69.815	6.541	57.048	52.749	42.002	Data
30	70.079	6.470	57.008	52.742	42.000	Data
42	70.079	6.470	57.008	52.742	42.000	Data
42	71.325	6.535	56.994	52.752	41.994	Data
42	70.747	6.497	57.014	52.74	42.001	Data
42	71.275	6.548	56.991	52.753	41.996	Data
43	70.079	6.470	57.008	52.742	42.000	Data
43	71.325	6.535	56.994	52.752	41.994	Data
43	71.275	6.548	56.991	52.753	41.996	Data
43	70.747	6.497	57.014	52.74	42.001	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	70.079	6.470	57.008	52.742	42.000	Data
44	71.325	6.535	56.994	52.752	41.994	Data
44	71.275	6.548	56.991	52.753	41.996	Data
44	70.747	6.497	57.014	52.74	42.001	Data
45	70.079	6.470	57.008	52.742	42.000	Data
45	71.325	6.535	56.994	52.752	41.994	Data
45	71.275	6.548	56.991	52.753	41.996	Data
45	70.747	6.497	57.014	52.74	42.001	Data
46.5	69.925	6.484	57.046	52.749	42.000	Data
46.5	70.272	6.453	57.065	52.752	42.008	Data
46.5	69.799	6.474	57.060	52.753	42.007	Data
46.5	69.815	6.541	57.048	52.749	42.002	Data
48	70.516	6.564	57.068	52.746	42.004	Data
48	68.650	6.514	57.019	52.747	41.990	Data
48	70.667	6.500	57.062	52.746	41.977	Data
48	69.036	6.480	57.014	52.745	41.989	Data
49	68.650	6.514	57.019	52.747	41.990	Data
49	70.516	6.564	57.068	52.746	42.004	Data
49	70.667	6.500	57.062	52.746	41.977	Data
49	69.036	6.480	57.014	52.745	41.989	Data
50	68.650	6.514	57.019	52.747	41.990	Data
50	70.516	6.564	57.068	52.746	42.004	Data
50	70.667	6.500	57.062	52.746	41.977	Data
50	69.036	6.480	57.014	52.745	41.989	Data
51	68.650	6.514	57.019	52.747	41.990	Data
51	70.516	6.564	57.068	52.746	42.004	Data
51	70.667	6.500	57.062	52.746	41.977	Data
51	69.036	6.480	57.014	52.745	41.989	Data
52.5	69.925	6.484	57.046	52.749	42.000	Data
52.5	70.272	6.453	57.065	52.752	42.008	Data
52.5	69.799	6.474	57.060	52.753	42.007	Data
52.5	69.815	6.541	57.048	52.749	42.002	Data
54	70.102	6.563	57.009	52.749	41.987	Data
54	68.807	6.566	57.011	52.746	41.982	Data
54	68.557	6.464	57.014	52.745	41.982	Data
54	70.394	6.500	57.010	52.749	41.988	Data
55	70.102	6.563	57.009	52.749	41.987	Data
55	68.807	6.566	57.011	52.746	41.982	Data
55	68.557	6.464	57.014	52.745	41.982	Data
55	70.394	6.500	57.010	52.749	41.988	Data
56	70.102	6.563	57.009	52.749	41.987	Data
56	68.807	6.566	57.011	52.746	41.982	Data
56	68.557	6.464	57.014	52.745	41.982	Data
56	70.394	6.500	57.010	52.749	41.988	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	70.102	6.563	57.009	52.749	41.987	Data
57	68.807	6.566	57.011	52.746	41.982	Data
57	68.557	6.464	57.014	52.745	41.982	Data
57	70.394	6.500	57.010	52.749	41.988	Data
58.5	69.925	6.484	57.046	52.749	42.000	Data
58.5	70.272	6.453	57.065	52.752	42.008	Data
58.5	69.799	6.474	57.060	52.753	42.007	Data
58.5	69.815	6.541	57.048	52.749	42.002	Data
60.5	70.591	6.490	57.030	52.748	41.981	Data
60.5	69.781	6.575	57.039	52.748	41.982	Data
60.5	70.197	6.540	57.013	52.749	41.961	Data
60.5	70.141	6.557	57.005	52.749	41.960	Data
61.75	70.591	6.490	57.030	52.748	41.981	Data
61.75	69.781	6.575	57.039	52.748	41.982	Data
61.75	70.141	6.557	57.005	52.749	41.960	Data
61.75	70.197	6.540	57.013	52.749	41.961	Data
63	70.591	6.490	57.030	52.748	41.981	Data
63	69.781	6.575	57.039	52.748	41.982	Data
63	70.197	6.540	57.013	52.749	41.961	Data
63	70.141	6.557	57.005	52.749	41.960	Data
64	70.591	6.490	57.030	52.748	41.981	Data
64	70.197	6.540	57.013	52.749	41.961	Data
64	69.781	6.575	57.039	52.748	41.982	Data
64	70.141	6.557	57.005	52.749	41.960	Data

Table 71: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.070	6.524	57.052	53.747	42.008	Data
8	70.456	6.520	57.052	53.748	42.007	Data
30	68.712	6.524	57.014	53.743	41.990	Data
30	71.070	6.524	57.052	53.747	42.008	Data
30	68.434	6.553	57.018	53.742	41.989	Data
30	70.140	6.494	57.035	53.746	41.980	Data
30	70.456	6.520	57.052	53.748	42.007	Data
30	70.842	6.543	56.996	53.746	41.997	Data
30	70.440	6.531	57.008	53.743	41.987	Data
30	69.408	6.525	57.029	53.745	41.980	Data
30	70.046	6.484	57.006	53.742	41.987	Data
30	70.668	6.501	56.995	53.746	41.994	Data
42	70.842	6.543	56.996	53.746	41.997	Data
42	70.668	6.501	56.995	53.746	41.994	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	70.842	6.543	56.996	53.746	41.997	Data
43	70.668	6.501	56.995	53.746	41.994	Data
44	70.842	6.543	56.996	53.746	41.997	Data
44	70.668	6.501	56.995	53.746	41.994	Data
45	70.842	6.543	56.996	53.746	41.997	Data
45	70.668	6.501	56.995	53.746	41.994	Data
46.5	71.070	6.524	57.052	53.747	42.008	Data
46.5	70.456	6.520	57.052	53.748	42.007	Data
48	68.434	6.553	57.018	53.742	41.989	Data
48	68.712	6.524	57.014	53.743	41.990	Data
49	68.434	6.553	57.018	53.742	41.989	Data
49	68.712	6.524	57.014	53.743	41.990	Data
50	68.434	6.553	57.018	53.742	41.989	Data
50	68.712	6.524	57.014	53.743	41.990	Data
51	68.434	6.553	57.018	53.742	41.989	Data
51	68.712	6.524	57.014	53.743	41.990	Data
52.5	71.070	6.524	57.052	53.747	42.008	Data
52.5	70.456	6.520	57.052	53.748	42.007	Data
54	70.440	6.531	57.008	53.743	41.987	Data
54	70.046	6.484	57.006	53.742	41.987	Data
55	70.440	6.531	57.008	53.743	41.987	Data
55	70.046	6.484	57.006	53.742	41.987	Data
56	70.440	6.531	57.008	53.743	41.987	Data
56	70.046	6.484	57.006	53.742	41.987	Data
57	70.440	6.531	57.008	53.743	41.987	Data
57	70.046	6.484	57.006	53.742	41.987	Data
58.5	71.070	6.524	57.052	53.747	42.008	Data
58.5	70.456	6.520	57.052	53.748	42.007	Data
60.5	70.140	6.494	57.035	53.746	41.980	Data
60.5	69.408	6.525	57.029	53.745	41.980	Data
61.75	70.140	6.494	57.035	53.746	41.980	Data
61.75	69.408	6.525	57.029	53.745	41.980	Data
63	70.140	6.494	57.035	53.746	41.980	Data
63	69.408	6.525	57.029	53.745	41.980	Data
64	70.140	6.494	57.035	53.746	41.980	Data
64	69.408	6.525	57.029	53.745	41.980	Data

Table 72: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=53.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.142	6.472	57.051	54.747	42.007	Data
8	71.020	6.490	57.051	54.746	42.008	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.164	6.482	57.019	54.742	41.991	Data
30	71.417	6.526	56.999	54.744	41.998	Data
30	71.020	6.490	57.051	54.746	42.008	Data
30	70.278	6.543	57.039	54.751	41.979	Data
30	69.414	6.485	57.005	54.745	41.986	Data
30	70.142	6.472	57.051	54.747	42.007	Data
30	69.879	6.540	57.034	54.752	41.979	Data
30	71.300	6.481	57.004	54.743	41.997	Data
30	68.594	6.475	57.010	54.744	41.990	Data
30	70.258	6.516	57.012	54.746	41.986	Data
42	71.417	6.526	56.999	54.744	41.998	Data
42	71.300	6.481	57.004	54.743	41.997	Data
43	71.300	6.481	57.004	54.743	41.997	Data
43	71.417	6.526	56.999	54.744	41.998	Data
44	71.300	6.481	57.004	54.743	41.997	Data
44	71.417	6.526	56.999	54.744	41.998	Data
45	71.300	6.481	57.004	54.743	41.997	Data
45	71.417	6.526	56.999	54.744	41.998	Data
46.5	71.020	6.490	57.051	54.746	42.008	Data
46.5	70.142	6.472	57.051	54.747	42.007	Data
48	68.594	6.475	57.010	54.744	41.990	Data
48	69.164	6.482	57.019	54.742	41.991	Data
49	68.594	6.475	57.010	54.744	41.990	Data
49	69.164	6.482	57.019	54.742	41.991	Data
50	68.594	6.475	57.010	54.744	41.990	Data
50	69.164	6.482	57.019	54.742	41.991	Data
51	68.594	6.475	57.010	54.744	41.990	Data
51	69.164	6.482	57.019	54.742	41.991	Data
52.5	71.020	6.490	57.051	54.746	42.008	Data
52.5	70.142	6.472	57.051	54.747	42.007	Data
54	70.258	6.516	57.012	54.746	41.986	Data
54	69.414	6.485	57.005	54.745	41.986	Data
55	70.258	6.516	57.012	54.746	41.986	Data
55	69.414	6.485	57.005	54.745	41.986	Data
56	70.258	6.516	57.012	54.746	41.986	Data
56	69.414	6.485	57.005	54.745	41.986	Data
57	70.258	6.516	57.012	54.746	41.986	Data
57	69.414	6.485	57.005	54.745	41.986	Data
58.5	71.020	6.490	57.051	54.746	42.008	Data
58.5	70.142	6.472	57.051	54.747	42.007	Data
60.5	70.278	6.543	57.039	54.751	41.979	Data
60.5	69.879	6.540	57.034	54.752	41.979	Data
61.75	70.278	6.543	57.039	54.751	41.979	Data
61.75	69.879	6.540	57.034	54.752	41.979	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	70.278	6.543	57.039	54.751	41.979	Data
63	69.879	6.540	57.034	54.752	41.979	Data
64	70.278	6.543	57.039	54.751	41.979	Data
64	69.879	6.540	57.034	54.752	41.979	Data

Table 73: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.233	6.559	57.051	55.744	42.008	Data
8	70.470	6.535	57.062	55.744	42.007	Data
30	70.073	6.505	57.037	55.748	41.977	Data
30	69.483	6.483	57.017	55.743	41.991	Data
30	71.468	6.555	57.002	55.746	41.997	Data
30	70.470	6.535	57.062	55.744	42.007	Data
30	69.849	6.528	57.018	55.744	41.991	Data
30	71.067	6.500	57.011	55.741	41.984	Data
30	71.494	6.524	57.000	55.745	41.999	Data
30	70.233	6.559	57.051	55.744	42.008	Data
30	69.736	6.544	57.029	55.749	41.978	Data
30	69.779	6.501	57.006	55.74	41.986	Data
42	71.494	6.524	57.000	55.745	41.999	Data
42	71.468	6.555	57.002	55.746	41.997	Data
43	71.494	6.524	57.000	55.745	41.999	Data
43	71.468	6.555	57.002	55.746	41.997	Data
44	71.494	6.524	57.000	55.745	41.999	Data
44	71.468	6.555	57.002	55.746	41.997	Data
45	71.494	6.524	57.000	55.745	41.999	Data
45	71.468	6.555	57.002	55.746	41.997	Data
46.5	70.470	6.535	57.062	55.744	42.007	Data
46.5	70.233	6.559	57.051	55.744	42.008	Data
48	69.849	6.528	57.018	55.744	41.991	Data
48	69.483	6.483	57.017	55.743	41.991	Data
49	69.849	6.528	57.018	55.744	41.991	Data
49	69.483	6.483	57.017	55.743	41.991	Data
50	69.849	6.528	57.018	55.744	41.991	Data
50	69.483	6.483	57.017	55.743	41.991	Data
51	69.849	6.528	57.018	55.744	41.991	Data
51	69.483	6.483	57.017	55.743	41.991	Data
52.5	70.470	6.535	57.062	55.744	42.007	Data
52.5	70.233	6.559	57.051	55.744	42.008	Data
54	69.779	6.501	57.006	55.74	41.986	Data
54	71.067	6.500	57.011	55.741	41.984	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	69.779	6.501	57.006	55.74	41.986	Data
55	71.067	6.500	57.011	55.741	41.984	Data
56	69.779	6.501	57.006	55.74	41.986	Data
56	71.067	6.500	57.011	55.741	41.984	Data
57	69.779	6.501	57.006	55.74	41.986	Data
57	71.067	6.500	57.011	55.741	41.984	Data
58.5	70.470	6.535	57.062	55.744	42.007	Data
58.5	70.233	6.559	57.051	55.744	42.008	Data
60.5	69.736	6.544	57.029	55.749	41.978	Data
60.5	70.073	6.505	57.037	55.748	41.977	Data
61.75	69.736	6.544	57.029	55.749	41.978	Data
61.75	70.073	6.505	57.037	55.748	41.977	Data
63	69.736	6.544	57.029	55.749	41.978	Data
63	70.073	6.505	57.037	55.748	41.977	Data
64	69.736	6.544	57.029	55.749	41.978	Data
64	70.073	6.505	57.037	55.748	41.977	Data

Table 74: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=55.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.420	6.487	57.056	56.745	42.007	Data
8	70.223	6.480	57.053	56.746	42.007	Data
30	70.301	6.528	57.038	56.749	41.975	Data
30	69.787	6.541	57.015	56.752	41.993	Data
30	71.300	6.570	57.000	56.747	41.999	Data
30	70.420	6.487	57.056	56.745	42.007	Data
30	70.372	6.519	57.011	56.746	41.984	Data
30	72.017	6.528	57.003	56.745	41.999	Data
30	69.326	6.500	57.015	56.752	41.993	Data
30	69.656	6.516	57.034	56.748	41.976	Data
30	70.545	6.511	56.999	56.747	41.984	Data
30	70.223	6.480	57.053	56.746	42.007	Data
42	71.300	6.570	57.000	56.747	41.999	Data
42	72.017	6.528	57.003	56.745	41.999	Data
43	71.300	6.570	57.000	56.747	41.999	Data
43	72.017	6.528	57.003	56.745	41.999	Data
44	71.300	6.570	57.000	56.747	41.999	Data
44	72.017	6.528	57.003	56.745	41.999	Data
45	71.300	6.570	57.000	56.747	41.999	Data
45	72.017	6.528	57.003	56.745	41.999	Data
46.5	70.223	6.480	57.053	56.746	42.007	Data
46.5	70.420	6.487	57.056	56.745	42.007	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	69.787	6.541	57.015	56.752	41.993	Data
48	69.326	6.500	57.015	56.752	41.993	Data
49	69.787	6.541	57.015	56.752	41.993	Data
49	69.326	6.500	57.015	56.752	41.993	Data
50	69.787	6.541	57.015	56.752	41.993	Data
50	69.326	6.500	57.015	56.752	41.993	Data
51	69.787	6.541	57.015	56.752	41.993	Data
51	69.326	6.500	57.015	56.752	41.993	Data
52.5	70.223	6.480	57.053	56.746	42.007	Data
52.5	70.420	6.487	57.056	56.745	42.007	Data
54	70.372	6.519	57.011	56.746	41.984	Data
54	70.545	6.511	56.999	56.747	41.984	Data
55	70.372	6.519	57.011	56.746	41.984	Data
55	70.545	6.511	56.999	56.747	41.984	Data
56	70.372	6.519	57.011	56.746	41.984	Data
56	70.545	6.511	56.999	56.747	41.984	Data
57	70.372	6.519	57.011	56.746	41.984	Data
57	70.545	6.511	56.999	56.747	41.984	Data
58.5	70.223	6.480	57.053	56.746	42.007	Data
58.5	70.420	6.487	57.056	56.745	42.007	Data
60.5	70.301	6.528	57.038	56.749	41.975	Data
60.5	69.656	6.516	57.034	56.748	41.976	Data
61.75	70.301	6.528	57.038	56.749	41.975	Data
61.75	69.656	6.516	57.034	56.748	41.976	Data
63	70.301	6.528	57.038	56.749	41.975	Data
63	69.656	6.516	57.034	56.748	41.976	Data
64	69.656	6.516	57.034	56.748	41.976	Data
64	70.301	6.528	57.038	56.749	41.975	Data

Table 75: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.247	6.500	57.051	57.76	42.006	Data
8	70.425	6.471	57.052	57.761	42.007	Data
30	69.432	6.453	57.017	57.767	41.995	Data
30	69.756	6.502	57.012	57.767	41.995	Data
30	70.205	6.541	57.008	57.765	41.983	Data
30	70.994	6.506	57.012	57.766	41.983	Data
30	70.425	6.471	57.052	57.761	42.007	Data
30	69.247	6.500	57.051	57.76	42.006	Data
30	70.534	6.517	57.037	57.751	41.974	Data
30	71.522	6.483	57.000	57.758	42.001	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.183	6.462	57.002	57.759	42.001	Data
30	70.646	6.514	57.040	57.752	41.974	Data
42	71.522	6.483	57.000	57.758	42.001	Data
42	71.183	6.462	57.002	57.759	42.001	Data
43	71.522	6.483	57.000	57.758	42.001	Data
43	71.183	6.462	57.002	57.759	42.001	Data
44	71.522	6.483	57.000	57.758	42.001	Data
44	71.183	6.462	57.002	57.759	42.001	Data
45	71.522	6.483	57.000	57.758	42.001	Data
45	71.183	6.462	57.002	57.759	42.001	Data
46.5	69.247	6.500	57.051	57.76	42.006	Data
46.5	70.425	6.471	57.052	57.761	42.007	Data
48	69.756	6.502	57.012	57.767	41.995	Data
48	69.432	6.453	57.017	57.767	41.995	Data
49	69.756	6.502	57.012	57.767	41.995	Data
49	69.432	6.453	57.017	57.767	41.995	Data
50	69.756	6.502	57.012	57.767	41.995	Data
50	69.432	6.453	57.017	57.767	41.995	Data
51	69.756	6.502	57.012	57.767	41.995	Data
51	69.432	6.453	57.017	57.767	41.995	Data
52.5	69.247	6.500	57.051	57.76	42.006	Data
52.5	70.425	6.471	57.052	57.761	42.007	Data
54	70.205	6.541	57.008	57.765	41.983	Data
54	70.994	6.506	57.012	57.766	41.983	Data
55	70.205	6.541	57.008	57.765	41.983	Data
55	70.994	6.506	57.012	57.766	41.983	Data
56	70.205	6.541	57.008	57.765	41.983	Data
56	70.994	6.506	57.012	57.766	41.983	Data
57	70.205	6.541	57.008	57.765	41.983	Data
57	70.994	6.506	57.012	57.766	41.983	Data
58.5	69.247	6.500	57.051	57.76	42.006	Data
58.5	70.425	6.471	57.052	57.761	42.007	Data
60.5	70.534	6.517	57.037	57.751	41.974	Data
60.5	70.646	6.514	57.040	57.752	41.974	Data
61.75	70.534	6.517	57.037	57.751	41.974	Data
61.75	70.646	6.514	57.040	57.752	41.974	Data
63	70.534	6.517	57.037	57.751	41.974	Data
63	70.646	6.514	57.040	57.752	41.974	Data
64	70.534	6.517	57.037	57.751	41.974	Data
64	70.646	6.514	57.040	57.752	41.974	Data

Table 76: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=57.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.313	6.529	57.054	58.76	42.007	Data
8	70.894	6.516	57.051	58.762	42.006	Data
30	70.278	6.516	57.031	58.752	41.972	Data
30	70.894	6.516	57.051	58.762	42.006	Data
30	70.313	6.529	57.054	58.76	42.007	Data
30	71.307	6.559	57.004	58.753	42.003	Data
30	70.578	6.509	57.013	58.761	41.997	Data
30	70.419	6.484	57.017	58.758	41.982	Data
30	71.526	6.514	57.003	58.752	42.003	Data
30	69.264	6.467	57.012	58.76	41.997	Data
30	69.917	6.583	57.042	58.753	41.973	Data
30	70.649	6.520	57.014	58.759	41.982	Data
42	71.307	6.559	57.004	58.753	42.003	Data
42	71.526	6.514	57.003	58.752	42.003	Data
43	71.307	6.559	57.004	58.753	42.003	Data
43	71.526	6.514	57.003	58.752	42.003	Data
44	71.307	6.559	57.004	58.753	42.003	Data
44	71.526	6.514	57.003	58.752	42.003	Data
45	71.307	6.559	57.004	58.753	42.003	Data
45	71.526	6.514	57.003	58.752	42.003	Data
46.5	70.894	6.516	57.051	58.762	42.006	Data
46.5	70.313	6.529	57.054	58.76	42.007	Data
48	69.264	6.467	57.012	58.76	41.997	Data
48	70.578	6.509	57.013	58.761	41.997	Data
49	69.264	6.467	57.012	58.76	41.997	Data
49	70.578	6.509	57.013	58.761	41.997	Data
50	69.264	6.467	57.012	58.76	41.997	Data
50	70.578	6.509	57.013	58.761	41.997	Data
51	69.264	6.467	57.012	58.76	41.997	Data
51	70.578	6.509	57.013	58.761	41.997	Data
52.5	70.894	6.516	57.051	58.762	42.006	Data
52.5	70.313	6.529	57.054	58.76	42.007	Data
54	70.419	6.484	57.017	58.758	41.982	Data
54	70.649	6.520	57.014	58.759	41.982	Data
55	70.419	6.484	57.017	58.758	41.982	Data
55	70.649	6.520	57.014	58.759	41.982	Data
56	70.419	6.484	57.017	58.758	41.982	Data
56	70.649	6.520	57.014	58.759	41.982	Data
57	70.419	6.484	57.017	58.758	41.982	Data
57	70.649	6.520	57.014	58.759	41.982	Data
58.5	70.313	6.529	57.054	58.76	42.007	Data
58.5	70.894	6.516	57.051	58.762	42.006	Data
60.5	70.278	6.516	57.031	58.752	41.972	Data
60.5	69.917	6.583	57.042	58.753	41.973	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	70.278	6.516	57.031	58.752	41.972	Data
61.75	69.917	6.583	57.042	58.753	41.973	Data
63	70.278	6.516	57.031	58.752	41.972	Data
63	69.917	6.583	57.042	58.753	41.973	Data
64	69.917	6.583	57.042	58.753	41.973	Data
64	70.278	6.516	57.031	58.752	41.972	Data

Table 77: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.323	6.491	57.055	59.757	42.005	Data
8	70.661	6.539	57.058	59.757	42.005	Data
30	69.421	6.544	57.009	59.764	41.999	Data
30	71.153	6.460	57.017	59.761	41.980	Data
30	69.195	6.498	57.008	59.763	42.000	Data
30	70.281	6.500	57.038	59.746	41.970	Data
30	70.983	6.502	57.045	59.747	41.971	Data
30	70.693	6.525	57.010	59.76	41.980	Data
30	71.836	6.531	56.998	59.751	42.005	Data
30	71.188	6.493	57.002	59.751	42.005	Data
30	70.323	6.491	57.055	59.757	42.005	Data
30	70.661	6.539	57.058	59.757	42.005	Data
42	71.188	6.493	57.002	59.751	42.005	Data
42	71.836	6.531	56.998	59.751	42.005	Data
43	71.188	6.493	57.002	59.751	42.005	Data
43	71.836	6.531	56.998	59.751	42.005	Data
44	71.188	6.493	57.002	59.751	42.005	Data
44	71.836	6.531	56.998	59.751	42.005	Data
45	71.188	6.493	57.002	59.751	42.005	Data
45	71.836	6.531	56.998	59.751	42.005	Data
46.5	70.323	6.491	57.055	59.757	42.005	Data
46.5	70.661	6.539	57.058	59.757	42.005	Data
48	69.421	6.544	57.009	59.764	41.999	Data
48	69.195	6.498	57.008	59.763	42.000	Data
49	69.421	6.544	57.009	59.764	41.999	Data
49	69.195	6.498	57.008	59.763	42.000	Data
50	69.421	6.544	57.009	59.764	41.999	Data
50	69.195	6.498	57.008	59.763	42.000	Data
51	69.421	6.544	57.009	59.764	41.999	Data
51	69.195	6.498	57.008	59.763	42.000	Data
52.5	70.323	6.491	57.055	59.757	42.005	Data
52.5	70.661	6.539	57.058	59.757	42.005	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	71.153	6.460	57.017	59.761	41.980	Data
54	70.693	6.525	57.010	59.76	41.980	Data
55	71.153	6.460	57.017	59.761	41.980	Data
55	70.693	6.525	57.010	59.76	41.980	Data
56	70.693	6.525	57.010	59.76	41.980	Data
56	71.153	6.460	57.017	59.761	41.980	Data
57	70.693	6.525	57.010	59.76	41.980	Data
57	71.153	6.460	57.017	59.761	41.980	Data
58.5	70.323	6.491	57.055	59.757	42.005	Data
58.5	70.661	6.539	57.058	59.757	42.005	Data
60.5	70.983	6.502	57.045	59.747	41.971	Data
60.5	70.281	6.500	57.038	59.746	41.970	Data
61.75	70.983	6.502	57.045	59.747	41.971	Data
61.75	70.281	6.500	57.038	59.746	41.970	Data
63	70.983	6.502	57.045	59.747	41.971	Data
63	70.281	6.500	57.038	59.746	41.970	Data
64	70.983	6.502	57.045	59.747	41.971	Data
64	70.281	6.500	57.038	59.746	41.970	Data

Table 78: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=59.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.338	6.527	57.056	60.77	42.004	Data
8	70.213	6.564	57.048	60.772	42.005	Data
30	71.955	6.512	56.999	60.759	42.008	Data
30	70.054	6.515	57.015	60.766	42.002	Data
30	69.898	6.492	57.041	60.759	41.969	Data
30	71.338	6.527	57.056	60.77	42.004	Data
30	72.086	6.508	57.013	60.76	42.008	Data
30	70.213	6.564	57.048	60.772	42.005	Data
30	69.354	6.505	57.007	60.767	42.002	Data
30	70.877	6.473	57.009	60.766	41.978	Data
30	69.888	6.554	57.039	60.76	41.969	Data
30	69.639	6.481	57.015	60.767	41.979	Data
42	71.955	6.512	56.999	60.759	42.008	Data
42	72.086	6.508	57.013	60.76	42.008	Data
43	71.955	6.512	56.999	60.759	42.008	Data
43	72.086	6.508	57.013	60.76	42.008	Data
44	71.955	6.512	56.999	60.759	42.008	Data
44	72.086	6.508	57.013	60.76	42.008	Data
45	71.955	6.512	56.999	60.759	42.008	Data
45	72.086	6.508	57.013	60.76	42.008	Data

VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.213	6.564	57.048	60.772	42.005	Data
46.5	71.338	6.527	57.056	60.77	42.004	Data
48	69.354	6.505	57.007	60.767	42.002	Data
48	70.054	6.515	57.015	60.766	42.002	Data
49	69.354	6.505	57.007	60.767	42.002	Data
49	70.054	6.515	57.015	60.766	42.002	Data
50	69.354	6.505	57.007	60.767	42.002	Data
50	70.054	6.515	57.015	60.766	42.002	Data
51	69.354	6.505	57.007	60.767	42.002	Data
51	70.054	6.515	57.015	60.766	42.002	Data
52.5	70.213	6.564	57.048	60.772	42.005	Data
52.5	71.338	6.527	57.056	60.77	42.004	Data
54	70.877	6.473	57.009	60.766	41.978	Data
54	69.639	6.481	57.015	60.767	41.979	Data
55	70.877	6.473	57.009	60.766	41.978	Data
55	69.639	6.481	57.015	60.767	41.979	Data
56	70.877	6.473	57.009	60.766	41.978	Data
56	69.639	6.481	57.015	60.767	41.979	Data
57	70.877	6.473	57.009	60.766	41.978	Data
57	69.639	6.481	57.015	60.767	41.979	Data
58.5	70.213	6.564	57.048	60.772	42.005	Data
58.5	71.338	6.527	57.056	60.77	42.004	Data
60.5	69.888	6.554	57.039	60.76	41.969	Data
60.5	69.898	6.492	57.041	60.759	41.969	Data
61.75	69.888	6.554	57.039	60.76	41.969	Data
61.75	69.898	6.492	57.041	60.759	41.969	Data
63	69.888	6.554	57.039	60.76	41.969	Data
63	69.898	6.492	57.041	60.759	41.969	Data
64	69.888	6.554	57.039	60.76	41.969	Data
64	69.898	6.492	57.041	60.759	41.969	Data

Table 79: VG horizontal sweep: q=70 RO-tip VG 42 (in) VG AoA 4 — VG at span y=60.5 (in)

D.8. Horizontal VG vortex sweep at height z=46.5, q=70, α_{VG}=8, α_W=7, RO-tip

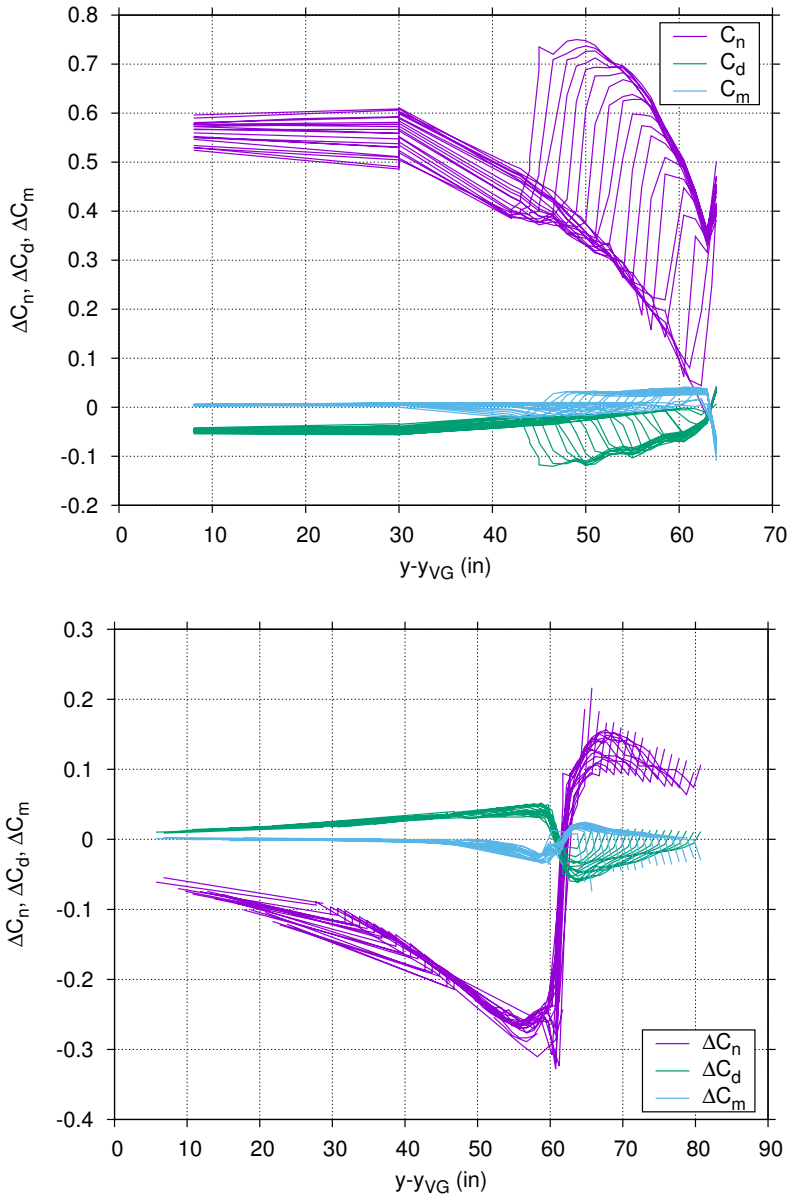

Figure 61. VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — (Data)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.064	6.536	57.016	43.742	46.509	Data
8	70.054	6.471	57.010	43.744	46.508	Data
30	69.461	6.539	57.061	43.751	46.507	Data
30	69.341	6.514	57.067	43.743	46.443	Data
30	70.383	6.481	57.063	43.744	46.442	Data
30	69.577	6.511	57.052	43.741	46.471	Data
30	68.833	6.482	57.056	43.749	46.505	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.158	6.506	57.066	43.751	46.505	Data
30	68.920	6.523	57.008	43.756	46.488	Data
30	70.064	6.536	57.016	43.742	46.509	Data
30	70.154	6.503	57.055	43.742	46.467	Data
30	68.873	6.483	57.057	43.75	46.505	Data
30	70.054	6.471	57.010	43.744	46.508	Data
30	68.742	6.525	57.005	43.756	46.493	Data
42	68.920	6.523	57.008	43.756	46.488	Data
42	69.461	6.539	57.061	43.751	46.507	Data
42	70.158	6.506	57.066	43.751	46.505	Data
42	68.742	6.525	57.005	43.756	46.493	Data
43	68.920	6.523	57.008	43.756	46.488	Data
43	69.461	6.539	57.061	43.751	46.507	Data
43	70.158	6.506	57.066	43.751	46.505	Data
43	68.742	6.525	57.005	43.756	46.493	Data
44	68.920	6.523	57.008	43.756	46.488	Data
44	69.461	6.539	57.061	43.751	46.507	Data
44	68.742	6.525	57.005	43.756	46.493	Data
44	70.158	6.506	57.066	43.751	46.505	Data
45	68.920	6.523	57.008	43.756	46.488	Data
45	68.742	6.525	57.005	43.756	46.493	Data
45	69.461	6.539	57.061	43.751	46.507	Data
45	70.158	6.506	57.066	43.751	46.505	Data
46.5	70.064	6.536	57.016	43.742	46.509	Data
46.5	70.054	6.471	57.010	43.744	46.508	Data
48	69.341	6.514	57.067	43.743	46.443	Data
48	70.383	6.481	57.063	43.744	46.442	Data
49	69.341	6.514	57.067	43.743	46.443	Data
49	70.383	6.481	57.063	43.744	46.442	Data
50	69.341	6.514	57.067	43.743	46.443	Data
50	70.383	6.481	57.063	43.744	46.442	Data
51	69.341	6.514	57.067	43.743	46.443	Data
51	70.383	6.481	57.063	43.744	46.442	Data
52.5	70.064	6.536	57.016	43.742	46.509	Data
52.5	70.054	6.471	57.010	43.744	46.508	Data
54	69.577	6.511	57.052	43.741	46.471	Data
54	70.154	6.503	57.055	43.742	46.467	Data
55	69.577	6.511	57.052	43.741	46.471	Data
55	70.154	6.503	57.055	43.742	46.467	Data
56	69.577	6.511	57.052	43.741	46.471	Data
56	70.154	6.503	57.055	43.742	46.467	Data
57	69.577	6.511	57.052	43.741	46.471	Data
57	70.154	6.503	57.055	43.742	46.467	Data
58.5	70.064	6.536	57.016	43.742	46.509	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
58.5	70.054	6.471	57.010	43.744	46.508	Data
60.5	68.873	6.483	57.057	43.75	46.505	Data
60.5	68.833	6.482	57.056	43.749	46.505	Data
61.75	68.873	6.483	57.057	43.75	46.505	Data
61.75	68.833	6.482	57.056	43.749	46.505	Data
63	68.873	6.483	57.057	43.75	46.505	Data
63	68.833	6.482	57.056	43.749	46.505	Data
64	68.833	6.482	57.056	43.749	46.505	Data
64	68.873	6.483	57.057	43.75	46.505	Data

Table 80: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.311	6.449	57.016	44.737	46.508	Data
8	69.567	6.526	57.007	44.737	46.508	Data
30	70.163	6.468	57.065	44.736	46.443	Data
30	70.054	6.569	57.051	44.739	46.463	Data
30	68.022	6.533	57.015	44.74	46.489	Data
30	69.787	6.529	57.057	44.734	46.505	Data
30	69.225	6.554	57.054	44.75	46.489	Data
30	69.978	6.541	57.065	44.738	46.443	Data
30	69.232	6.493	57.057	44.735	46.506	Data
30	70.416	6.497	57.052	44.739	46.461	Data
30	68.977	6.526	57.010	44.741	46.489	Data
30	69.825	6.555	57.051	44.749	46.484	Data
30	69.311	6.449	57.016	44.737	46.508	Data
30	69.567	6.526	57.007	44.737	46.508	Data
42	68.022	6.533	57.015	44.74	46.489	Data
42	68.977	6.526	57.010	44.741	46.489	Data
42	69.825	6.555	57.051	44.749	46.484	Data
42	69.225	6.554	57.054	44.75	46.489	Data
43	68.022	6.533	57.015	44.74	46.489	Data
43	68.977	6.526	57.010	44.741	46.489	Data
43	69.225	6.554	57.054	44.75	46.489	Data
43	69.825	6.555	57.051	44.749	46.484	Data
44	68.022	6.533	57.015	44.74	46.489	Data
44	68.977	6.526	57.010	44.741	46.489	Data
44	69.225	6.554	57.054	44.75	46.489	Data
44	69.825	6.555	57.051	44.749	46.484	Data
45	69.225	6.554	57.054	44.75	46.489	Data
45	68.022	6.533	57.015	44.74	46.489	Data
45	68.977	6.526	57.010	44.741	46.489	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	69.825	6.555	57.051	44.749	46.484	Data
46.5	69.311	6.449	57.016	44.737	46.508	Data
46.5	69.567	6.526	57.007	44.737	46.508	Data
48	70.163	6.468	57.065	44.736	46.443	Data
48	69.978	6.541	57.065	44.738	46.443	Data
49	70.163	6.468	57.065	44.736	46.443	Data
49	69.978	6.541	57.065	44.738	46.443	Data
50	70.163	6.468	57.065	44.736	46.443	Data
50	69.978	6.541	57.065	44.738	46.443	Data
51	70.163	6.468	57.065	44.736	46.443	Data
51	69.978	6.541	57.065	44.738	46.443	Data
52.5	69.567	6.526	57.007	44.737	46.508	Data
52.5	69.311	6.449	57.016	44.737	46.508	Data
54	70.416	6.497	57.052	44.739	46.461	Data
54	70.054	6.569	57.051	44.739	46.463	Data
55	70.416	6.497	57.052	44.739	46.461	Data
55	70.054	6.569	57.051	44.739	46.463	Data
56	70.416	6.497	57.052	44.739	46.461	Data
56	70.054	6.569	57.051	44.739	46.463	Data
57	70.416	6.497	57.052	44.739	46.461	Data
57	70.054	6.569	57.051	44.739	46.463	Data
58.5	69.567	6.526	57.007	44.737	46.508	Data
58.5	69.311	6.449	57.016	44.737	46.508	Data
60.5	69.232	6.493	57.057	44.735	46.506	Data
60.5	69.787	6.529	57.057	44.734	46.505	Data
61.75	69.232	6.493	57.057	44.735	46.506	Data
61.75	69.787	6.529	57.057	44.734	46.505	Data
63	69.232	6.493	57.057	44.735	46.506	Data
63	69.787	6.529	57.057	44.734	46.505	Data
64	69.232	6.493	57.057	44.735	46.506	Data
64	69.787	6.529	57.057	44.734	46.505	Data

Table 81: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.373	6.492	57.013	45.734	46.508	Data
8	69.651	6.509	57.013	45.733	46.508	Data
30	69.427	6.489	57.068	45.733	46.442	Data
30	70.352	6.493	57.049	45.74	46.464	Data
30	70.142	6.485	57.044	45.736	46.490	Data
30	69.435	6.511	57.053	45.733	46.505	Data
30	68.959	6.548	57.017	45.738	46.487	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.282	6.468	57.049	45.738	46.463	Data
30	69.855	6.517	57.044	45.734	46.493	Data
30	70.115	6.478	57.056	45.735	46.505	Data
30	68.765	6.520	57.020	45.739	46.483	Data
30	70.346	6.504	57.068	45.733	46.442	Data
30	69.373	6.492	57.013	45.734	46.508	Data
30	69.651	6.509	57.013	45.733	46.508	Data
42	68.765	6.520	57.020	45.739	46.483	Data
42	69.855	6.517	57.044	45.734	46.493	Data
42	68.959	6.548	57.017	45.738	46.487	Data
42	70.142	6.485	57.044	45.736	46.490	Data
43	68.765	6.520	57.020	45.739	46.483	Data
43	68.959	6.548	57.017	45.738	46.487	Data
43	69.855	6.517	57.044	45.734	46.493	Data
43	70.142	6.485	57.044	45.736	46.490	Data
44	68.765	6.520	57.020	45.739	46.483	Data
44	68.959	6.548	57.017	45.738	46.487	Data
44	69.855	6.517	57.044	45.734	46.493	Data
44	70.142	6.485	57.044	45.736	46.490	Data
45	68.765	6.520	57.020	45.739	46.483	Data
45	68.959	6.548	57.017	45.738	46.487	Data
45	69.855	6.517	57.044	45.734	46.493	Data
45	70.142	6.485	57.044	45.736	46.490	Data
46.5	69.651	6.509	57.013	45.733	46.508	Data
46.5	69.373	6.492	57.013	45.734	46.508	Data
48	69.427	6.489	57.068	45.733	46.442	Data
48	70.346	6.504	57.068	45.733	46.442	Data
49	69.427	6.489	57.068	45.733	46.442	Data
49	70.346	6.504	57.068	45.733	46.442	Data
50	69.427	6.489	57.068	45.733	46.442	Data
50	70.346	6.504	57.068	45.733	46.442	Data
51	69.427	6.489	57.068	45.733	46.442	Data
51	70.346	6.504	57.068	45.733	46.442	Data
52.5	69.373	6.492	57.013	45.734	46.508	Data
52.5	69.651	6.509	57.013	45.733	46.508	Data
54	70.282	6.468	57.049	45.738	46.463	Data
54	70.352	6.493	57.049	45.74	46.464	Data
55	70.282	6.468	57.049	45.738	46.463	Data
55	70.352	6.493	57.049	45.74	46.464	Data
56	70.282	6.468	57.049	45.738	46.463	Data
56	70.352	6.493	57.049	45.74	46.464	Data
57	70.282	6.468	57.049	45.738	46.463	Data
57	70.352	6.493	57.049	45.74	46.464	Data
58.5	69.373	6.492	57.013	45.734	46.508	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
58.5	69.651	6.509	57.013	45.733	46.508	Data
60.5	69.435	6.511	57.053	45.733	46.505	Data
60.5	70.115	6.478	57.056	45.735	46.505	Data
61.75	69.435	6.511	57.053	45.733	46.505	Data
61.75	70.115	6.478	57.056	45.735	46.505	Data
63	69.435	6.511	57.053	45.733	46.505	Data
63	70.115	6.478	57.056	45.735	46.505	Data
64	69.435	6.511	57.053	45.733	46.505	Data
64	70.115	6.478	57.056	45.735	46.505	Data

Table 82: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=45.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.248	6.497	57.006	46.737	46.508	Data
8	70.547	6.530	57.010	46.736	46.508	Data
30	68.295	6.532	57.063	46.73	46.439	Data
30	69.444	6.511	57.014	46.737	46.483	Data
30	70.685	6.520	57.049	46.742	46.461	Data
30	68.094	6.463	57.072	46.73	46.437	Data
30	69.146	6.530	57.019	46.737	46.484	Data
30	69.364	6.515	57.050	46.735	46.505	Data
30	69.442	6.459	57.060	46.735	46.505	Data
30	70.072	6.470	57.057	46.74	46.460	Data
30	70.248	6.497	57.006	46.737	46.508	Data
30	70.547	6.530	57.010	46.736	46.508	Data
42	69.444	6.511	57.014	46.737	46.483	Data
42	69.146	6.530	57.019	46.737	46.484	Data
43	69.444	6.511	57.014	46.737	46.483	Data
43	69.146	6.530	57.019	46.737	46.484	Data
44	69.444	6.511	57.014	46.737	46.483	Data
44	69.146	6.530	57.019	46.737	46.484	Data
45	69.444	6.511	57.014	46.737	46.483	Data
45	69.146	6.530	57.019	46.737	46.484	Data
46.5	70.248	6.497	57.006	46.737	46.508	Data
46.5	70.547	6.530	57.010	46.736	46.508	Data
48	68.295	6.532	57.063	46.73	46.439	Data
48	68.094	6.463	57.072	46.73	46.437	Data
49	68.295	6.532	57.063	46.73	46.439	Data
49	68.094	6.463	57.072	46.73	46.437	Data
50	68.094	6.463	57.072	46.73	46.437	Data
50	68.295	6.532	57.063	46.73	46.439	Data
51	68.295	6.532	57.063	46.73	46.439	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	68.094	6.463	57.072	46.73	46.437	Data
52.5	70.248	6.497	57.006	46.737	46.508	Data
52.5	70.547	6.530	57.010	46.736	46.508	Data
54	70.685	6.520	57.049	46.742	46.461	Data
54	70.072	6.470	57.057	46.74	46.460	Data
55	70.685	6.520	57.049	46.742	46.461	Data
55	70.072	6.470	57.057	46.74	46.460	Data
56	70.685	6.520	57.049	46.742	46.461	Data
56	70.072	6.470	57.057	46.74	46.460	Data
57	70.685	6.520	57.049	46.742	46.461	Data
57	70.072	6.470	57.057	46.74	46.460	Data
58.5	70.248	6.497	57.006	46.737	46.508	Data
58.5	70.547	6.530	57.010	46.736	46.508	Data
60.5	69.364	6.515	57.050	46.735	46.505	Data
60.5	69.442	6.459	57.060	46.735	46.505	Data
61.75	69.364	6.515	57.050	46.735	46.505	Data
61.75	69.442	6.459	57.060	46.735	46.505	Data
63	69.364	6.515	57.050	46.735	46.505	Data
63	69.442	6.459	57.060	46.735	46.505	Data
64	69.442	6.459	57.060	46.735	46.505	Data
64	69.364	6.515	57.050	46.735	46.505	Data

Table 83: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.101	6.482	57.018	47.74	46.508	Data
8	70.499	6.522	57.013	47.74	46.507	Data
30	67.913	6.495	57.070	47.736	46.442	Data
30	68.824	6.513	57.023	47.74	46.482	Data
30	69.686	6.489	57.058	47.743	46.504	Data
30	69.742	6.558	57.061	47.743	46.505	Data
30	70.537	6.435	57.049	47.744	46.457	Data
30	70.622	6.476	57.041	47.743	46.457	Data
30	70.101	6.482	57.018	47.74	46.508	Data
30	68.365	6.494	57.066	47.736	46.442	Data
30	69.063	6.497	57.027	47.738	46.481	Data
30	70.499	6.522	57.013	47.74	46.507	Data
42	68.824	6.513	57.023	47.74	46.482	Data
42	69.063	6.497	57.027	47.738	46.481	Data
43	68.824	6.513	57.023	47.74	46.482	Data
43	69.063	6.497	57.027	47.738	46.481	Data
44	68.824	6.513	57.023	47.74	46.482	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	69.063	6.497	57.027	47.738	46.481	Data
45	68.824	6.513	57.023	47.74	46.482	Data
45	69.063	6.497	57.027	47.738	46.481	Data
46.5	70.101	6.482	57.018	47.74	46.508	Data
46.5	70.499	6.522	57.013	47.74	46.507	Data
48	68.365	6.494	57.066	47.736	46.442	Data
48	67.913	6.495	57.070	47.736	46.442	Data
49	67.913	6.495	57.070	47.736	46.442	Data
49	68.365	6.494	57.066	47.736	46.442	Data
50	67.913	6.495	57.070	47.736	46.442	Data
50	68.365	6.494	57.066	47.736	46.442	Data
51	67.913	6.495	57.070	47.736	46.442	Data
51	68.365	6.494	57.066	47.736	46.442	Data
52.5	70.101	6.482	57.018	47.74	46.508	Data
52.5	70.499	6.522	57.013	47.74	46.507	Data
54	70.622	6.476	57.041	47.743	46.457	Data
54	70.537	6.435	57.049	47.744	46.457	Data
55	70.622	6.476	57.041	47.743	46.457	Data
55	70.537	6.435	57.049	47.744	46.457	Data
56	70.622	6.476	57.041	47.743	46.457	Data
56	70.537	6.435	57.049	47.744	46.457	Data
57	70.622	6.476	57.041	47.743	46.457	Data
57	70.537	6.435	57.049	47.744	46.457	Data
58.5	70.101	6.482	57.018	47.74	46.508	Data
58.5	70.499	6.522	57.013	47.74	46.507	Data
60.5	69.686	6.489	57.058	47.743	46.504	Data
60.5	69.742	6.558	57.061	47.743	46.505	Data
61.75	69.686	6.489	57.058	47.743	46.504	Data
61.75	69.742	6.558	57.061	47.743	46.505	Data
63	69.686	6.489	57.058	47.743	46.504	Data
63	69.742	6.558	57.061	47.743	46.505	Data
64	69.686	6.489	57.058	47.743	46.504	Data
64	69.742	6.558	57.061	47.743	46.505	Data

Table 84: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=47.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.520	6.459	57.019	48.744	46.508	Data
8	70.690	6.488	57.020	48.744	46.508	Data
30	69.319	6.523	57.023	48.749	46.480	Data
30	69.976	6.521	57.027	48.748	46.479	Data
30	70.275	6.504	57.060	48.743	46.504	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.213	6.462	57.068	48.746	46.443	Data
30	68.245	6.509	57.075	48.747	46.443	Data
30	70.646	6.480	57.048	48.751	46.458	Data
30	70.520	6.459	57.019	48.744	46.508	Data
30	70.980	6.521	57.043	48.755	46.456	Data
30	69.814	6.520	57.062	48.745	46.505	Data
30	70.690	6.488	57.020	48.744	46.508	Data
42	69.976	6.521	57.027	48.748	46.479	Data
42	69.319	6.523	57.023	48.749	46.480	Data
43	69.976	6.521	57.027	48.748	46.479	Data
43	69.319	6.523	57.023	48.749	46.480	Data
44	69.976	6.521	57.027	48.748	46.479	Data
44	69.319	6.523	57.023	48.749	46.480	Data
45	69.976	6.521	57.027	48.748	46.479	Data
45	69.319	6.523	57.023	48.749	46.480	Data
46.5	70.690	6.488	57.020	48.744	46.508	Data
46.5	70.520	6.459	57.019	48.744	46.508	Data
48	68.213	6.462	57.068	48.746	46.443	Data
48	68.245	6.509	57.075	48.747	46.443	Data
49	68.213	6.462	57.068	48.746	46.443	Data
49	68.245	6.509	57.075	48.747	46.443	Data
50	68.213	6.462	57.068	48.746	46.443	Data
50	68.245	6.509	57.075	48.747	46.443	Data
51	68.245	6.509	57.075	48.747	46.443	Data
51	68.213	6.462	57.068	48.746	46.443	Data
52.5	70.520	6.459	57.019	48.744	46.508	Data
52.5	70.690	6.488	57.020	48.744	46.508	Data
54	70.646	6.480	57.048	48.751	46.458	Data
54	70.980	6.521	57.043	48.755	46.456	Data
55	70.646	6.480	57.048	48.751	46.458	Data
55	70.980	6.521	57.043	48.755	46.456	Data
56	70.646	6.480	57.048	48.751	46.458	Data
56	70.980	6.521	57.043	48.755	46.456	Data
57	70.646	6.480	57.048	48.751	46.458	Data
57	70.980	6.521	57.043	48.755	46.456	Data
58.5	70.690	6.488	57.020	48.744	46.508	Data
58.5	70.520	6.459	57.019	48.744	46.508	Data
60.5	70.275	6.504	57.060	48.743	46.504	Data
60.5	69.814	6.520	57.062	48.745	46.505	Data
61.75	70.275	6.504	57.060	48.743	46.504	Data
61.75	69.814	6.520	57.062	48.745	46.505	Data
63	70.275	6.504	57.060	48.743	46.504	Data
63	69.814	6.520	57.062	48.745	46.505	Data
64	70.275	6.504	57.060	48.743	46.504	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	69.814	6.520	57.062	48.745	46.505	Data

Table 85: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.379	6.512	57.012	49.75	46.507	Data
8	71.196	6.501	57.012	49.75	46.507	Data
30	69.920	6.536	57.023	49.75	46.480	Data
30	70.433	6.471	57.060	49.745	46.504	Data
30	68.653	6.496	57.070	49.751	46.442	Data
30	68.882	6.527	57.024	49.749	46.479	Data
30	71.379	6.512	57.012	49.75	46.507	Data
30	71.713	6.494	57.044	49.746	46.454	Data
30	68.986	6.505	57.068	49.748	46.443	Data
30	70.736	6.542	57.060	49.745	46.504	Data
30	71.196	6.501	57.012	49.75	46.507	Data
30	70.492	6.487	57.047	49.746	46.452	Data
42	69.920	6.536	57.023	49.75	46.480	Data
42	68.882	6.527	57.024	49.749	46.479	Data
43	69.920	6.536	57.023	49.75	46.480	Data
43	68.882	6.527	57.024	49.749	46.479	Data
44	69.920	6.536	57.023	49.75	46.480	Data
44	68.882	6.527	57.024	49.749	46.479	Data
45	69.920	6.536	57.023	49.75	46.480	Data
45	68.882	6.527	57.024	49.749	46.479	Data
46.5	71.379	6.512	57.012	49.75	46.507	Data
46.5	71.196	6.501	57.012	49.75	46.507	Data
48	68.653	6.496	57.070	49.751	46.442	Data
48	68.986	6.505	57.068	49.748	46.443	Data
49	68.653	6.496	57.070	49.751	46.442	Data
49	68.986	6.505	57.068	49.748	46.443	Data
50	68.653	6.496	57.070	49.751	46.442	Data
50	68.986	6.505	57.068	49.748	46.443	Data
51	68.986	6.505	57.068	49.748	46.443	Data
51	68.653	6.496	57.070	49.751	46.442	Data
52.5	71.196	6.501	57.012	49.75	46.507	Data
52.5	71.379	6.512	57.012	49.75	46.507	Data
54	71.713	6.494	57.044	49.746	46.454	Data
54	70.492	6.487	57.047	49.746	46.452	Data
55	71.713	6.494	57.044	49.746	46.454	Data
55	70.492	6.487	57.047	49.746	46.452	Data
56	71.713	6.494	57.044	49.746	46.454	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	70.492	6.487	57.047	49.746	46.452	Data
57	71.713	6.494	57.044	49.746	46.454	Data
57	70.492	6.487	57.047	49.746	46.452	Data
58.5	71.196	6.501	57.012	49.75	46.507	Data
58.5	71.379	6.512	57.012	49.75	46.507	Data
60.5	70.736	6.542	57.060	49.745	46.504	Data
60.5	70.433	6.471	57.060	49.745	46.504	Data
61.75	70.736	6.542	57.060	49.745	46.504	Data
61.75	70.433	6.471	57.060	49.745	46.504	Data
63	70.736	6.542	57.060	49.745	46.504	Data
63	70.433	6.471	57.060	49.745	46.504	Data
64	70.433	6.471	57.060	49.745	46.504	Data
64	70.736	6.542	57.060	49.745	46.504	Data

Table 86: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=49.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.642	6.452	57.019	50.743	46.508	Data
8	71.253	6.512	57.017	50.743	46.507	Data
30	69.668	6.506	57.018	50.743	46.479	Data
30	68.399	6.503	57.063	50.741	46.505	Data
30	68.642	6.503	57.059	50.741	46.504	Data
30	71.253	6.512	57.017	50.743	46.507	Data
30	69.285	6.519	57.022	50.742	46.479	Data
30	69.359	6.486	57.069	50.747	46.442	Data
30	71.951	6.497	57.044	50.744	46.453	Data
30	70.642	6.452	57.019	50.743	46.508	Data
30	71.112	6.530	57.050	50.744	46.454	Data
30	69.220	6.472	57.068	50.749	46.443	Data
42	69.285	6.519	57.022	50.742	46.479	Data
42	69.668	6.506	57.018	50.743	46.479	Data
43	69.285	6.519	57.022	50.742	46.479	Data
43	69.668	6.506	57.018	50.743	46.479	Data
44	69.285	6.519	57.022	50.742	46.479	Data
44	69.668	6.506	57.018	50.743	46.479	Data
45	69.285	6.519	57.022	50.742	46.479	Data
45	69.668	6.506	57.018	50.743	46.479	Data
46.5	71.253	6.512	57.017	50.743	46.507	Data
46.5	70.642	6.452	57.019	50.743	46.508	Data
48	69.359	6.486	57.069	50.747	46.442	Data
48	69.220	6.472	57.068	50.749	46.443	Data
49	69.359	6.486	57.069	50.747	46.442	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
49	69.220	6.472	57.068	50.749	46.443	Data
50	69.359	6.486	57.069	50.747	46.442	Data
50	69.220	6.472	57.068	50.749	46.443	Data
51	69.359	6.486	57.069	50.747	46.442	Data
51	69.220	6.472	57.068	50.749	46.443	Data
52.5	71.253	6.512	57.017	50.743	46.507	Data
52.5	70.642	6.452	57.019	50.743	46.508	Data
54	71.951	6.497	57.044	50.744	46.453	Data
54	71.112	6.530	57.050	50.744	46.454	Data
55	71.951	6.497	57.044	50.744	46.453	Data
55	71.112	6.530	57.050	50.744	46.454	Data
56	71.951	6.497	57.044	50.744	46.453	Data
56	71.112	6.530	57.050	50.744	46.454	Data
57	71.951	6.497	57.044	50.744	46.453	Data
57	71.112	6.530	57.050	50.744	46.454	Data
58.5	71.253	6.512	57.017	50.743	46.507	Data
58.5	70.642	6.452	57.019	50.743	46.508	Data
60.5	68.642	6.503	57.059	50.741	46.504	Data
60.5	68.399	6.503	57.063	50.741	46.505	Data
61.75	68.642	6.503	57.059	50.741	46.504	Data
61.75	68.399	6.503	57.063	50.741	46.505	Data
63	68.399	6.503	57.063	50.741	46.505	Data
63	68.642	6.503	57.059	50.741	46.504	Data
64	68.399	6.503	57.063	50.741	46.505	Data
64	68.642	6.503	57.059	50.741	46.504	Data

Table 87: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.071	6.526	57.019	51.746	46.508	Data
8	71.401	6.501	57.022	51.747	46.507	Data
30	68.825	6.531	57.057	51.747	46.504	Data
30	71.071	6.526	57.019	51.746	46.508	Data
30	70.251	6.467	57.018	51.743	46.478	Data
30	69.084	6.441	57.072	51.743	46.438	Data
30	68.946	6.460	57.067	51.743	46.438	Data
30	71.423	6.540	57.046	51.739	46.457	Data
30	68.894	6.565	57.058	51.748	46.503	Data
30	70.968	6.477	57.048	51.739	46.457	Data
30	71.401	6.501	57.022	51.747	46.507	Data
30	70.132	6.517	57.016	51.742	46.478	Data
42	70.251	6.467	57.018	51.743	46.478	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
42	70.132	6.517	57.016	51.742	46.478	Data
43	70.251	6.467	57.018	51.743	46.478	Data
43	70.132	6.517	57.016	51.742	46.478	Data
44	70.251	6.467	57.018	51.743	46.478	Data
44	70.132	6.517	57.016	51.742	46.478	Data
45	70.251	6.467	57.018	51.743	46.478	Data
45	70.132	6.517	57.016	51.742	46.478	Data
46.5	71.071	6.526	57.019	51.746	46.508	Data
46.5	71.401	6.501	57.022	51.747	46.507	Data
48	68.946	6.460	57.067	51.743	46.438	Data
48	69.084	6.441	57.072	51.743	46.438	Data
49	68.946	6.460	57.067	51.743	46.438	Data
49	69.084	6.441	57.072	51.743	46.438	Data
50	68.946	6.460	57.067	51.743	46.438	Data
50	69.084	6.441	57.072	51.743	46.438	Data
51	68.946	6.460	57.067	51.743	46.438	Data
51	69.084	6.441	57.072	51.743	46.438	Data
52.5	71.401	6.501	57.022	51.747	46.507	Data
52.5	71.071	6.526	57.019	51.746	46.508	Data
54	71.423	6.540	57.046	51.739	46.457	Data
54	70.968	6.477	57.048	51.739	46.457	Data
55	71.423	6.540	57.046	51.739	46.457	Data
55	70.968	6.477	57.048	51.739	46.457	Data
56	71.423	6.540	57.046	51.739	46.457	Data
56	70.968	6.477	57.048	51.739	46.457	Data
57	71.423	6.540	57.046	51.739	46.457	Data
57	70.968	6.477	57.048	51.739	46.457	Data
58.5	71.071	6.526	57.019	51.746	46.508	Data
58.5	71.401	6.501	57.022	51.747	46.507	Data
60.5	68.894	6.565	57.058	51.748	46.503	Data
60.5	68.825	6.531	57.057	51.747	46.504	Data
61.75	68.894	6.565	57.058	51.748	46.503	Data
61.75	68.825	6.531	57.057	51.747	46.504	Data
63	68.894	6.565	57.058	51.748	46.503	Data
63	68.825	6.531	57.057	51.747	46.504	Data
64	68.825	6.531	57.057	51.747	46.504	Data
64	68.894	6.565	57.058	51.748	46.503	Data

Table 88: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=51.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.519	6.501	57.016	52.746	46.507	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.387	6.482	57.016	52.746	46.507	Data
30	71.604	6.486	57.050	52.75	46.491	Data
30	69.242	6.476	57.060	52.738	46.504	Data
30	69.233	6.487	57.063	52.74	46.441	Data
30	71.387	6.482	57.016	52.746	46.507	Data
30	69.683	6.523	57.075	52.739	46.442	Data
30	71.910	6.514	57.051	52.751	46.489	Data
30	70.497	6.554	57.019	52.747	46.477	Data
30	69.037	6.546	57.056	52.738	46.504	Data
30	71.519	6.501	57.016	52.746	46.507	Data
30	69.685	6.491	57.020	52.748	46.477	Data
42	69.685	6.491	57.020	52.748	46.477	Data
42	70.497	6.554	57.019	52.747	46.477	Data
43	69.685	6.491	57.020	52.748	46.477	Data
43	70.497	6.554	57.019	52.747	46.477	Data
44	69.685	6.491	57.020	52.748	46.477	Data
44	70.497	6.554	57.019	52.747	46.477	Data
45	69.685	6.491	57.020	52.748	46.477	Data
45	70.497	6.554	57.019	52.747	46.477	Data
46.5	71.387	6.482	57.016	52.746	46.507	Data
46.5	71.519	6.501	57.016	52.746	46.507	Data
48	69.683	6.523	57.075	52.739	46.442	Data
48	69.233	6.487	57.063	52.74	46.441	Data
49	69.683	6.523	57.075	52.739	46.442	Data
49	69.233	6.487	57.063	52.74	46.441	Data
50	69.683	6.523	57.075	52.739	46.442	Data
50	69.233	6.487	57.063	52.74	46.441	Data
51	69.683	6.523	57.075	52.739	46.442	Data
51	69.233	6.487	57.063	52.74	46.441	Data
52.5	71.387	6.482	57.016	52.746	46.507	Data
52.5	71.519	6.501	57.016	52.746	46.507	Data
54	71.910	6.514	57.051	52.751	46.489	Data
54	71.604	6.486	57.050	52.75	46.491	Data
55	71.604	6.486	57.050	52.75	46.491	Data
55	71.910	6.514	57.051	52.751	46.489	Data
56	71.604	6.486	57.050	52.75	46.491	Data
56	71.910	6.514	57.051	52.751	46.489	Data
57	71.604	6.486	57.050	52.75	46.491	Data
57	71.910	6.514	57.051	52.751	46.489	Data
58.5	71.387	6.482	57.016	52.746	46.507	Data
58.5	71.519	6.501	57.016	52.746	46.507	Data
60.5	69.037	6.546	57.056	52.738	46.504	Data
60.5	69.242	6.476	57.060	52.738	46.504	Data
61.75	69.037	6.546	57.056	52.738	46.504	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.242	6.476	57.060	52.738	46.504	Data
63	69.037	6.546	57.056	52.738	46.504	Data
63	69.242	6.476	57.060	52.738	46.504	Data
64	69.242	6.476	57.060	52.738	46.504	Data
64	69.037	6.546	57.056	52.738	46.504	Data

Table 89: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.481	6.522	57.019	53.741	46.507	Data
8	72.419	6.476	57.015	53.738	46.507	Data
30	69.500	6.471	57.070	53.736	46.443	Data
30	71.376	6.500	57.048	53.743	46.493	Data
30	70.058	6.503	57.012	53.739	46.477	Data
30	70.263	6.557	57.017	53.738	46.476	Data
30	68.909	6.510	57.063	53.739	46.504	Data
30	72.081	6.541	57.050	53.745	46.493	Data
30	69.181	6.466	57.068	53.736	46.441	Data
30	72.419	6.476	57.015	53.738	46.507	Data
30	70.481	6.522	57.019	53.741	46.507	Data
30	69.681	6.459	57.057	53.739	46.504	Data
42	70.263	6.557	57.017	53.738	46.476	Data
42	70.058	6.503	57.012	53.739	46.477	Data
43	70.263	6.557	57.017	53.738	46.476	Data
43	70.058	6.503	57.012	53.739	46.477	Data
44	70.263	6.557	57.017	53.738	46.476	Data
44	70.058	6.503	57.012	53.739	46.477	Data
45	70.263	6.557	57.017	53.738	46.476	Data
45	70.058	6.503	57.012	53.739	46.477	Data
46.5	72.419	6.476	57.015	53.738	46.507	Data
46.5	70.481	6.522	57.019	53.741	46.507	Data
48	69.500	6.471	57.070	53.736	46.443	Data
48	69.181	6.466	57.068	53.736	46.441	Data
49	69.500	6.471	57.070	53.736	46.443	Data
49	69.181	6.466	57.068	53.736	46.441	Data
50	69.500	6.471	57.070	53.736	46.443	Data
50	69.181	6.466	57.068	53.736	46.441	Data
51	69.500	6.471	57.070	53.736	46.443	Data
51	69.181	6.466	57.068	53.736	46.441	Data
52.5	72.419	6.476	57.015	53.738	46.507	Data
52.5	70.481	6.522	57.019	53.741	46.507	Data
54	71.376	6.500	57.048	53.743	46.493	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	72.081	6.541	57.050	53.745	46.493	Data
55	71.376	6.500	57.048	53.743	46.493	Data
55	72.081	6.541	57.050	53.745	46.493	Data
56	72.081	6.541	57.050	53.745	46.493	Data
56	71.376	6.500	57.048	53.743	46.493	Data
57	72.081	6.541	57.050	53.745	46.493	Data
57	71.376	6.500	57.048	53.743	46.493	Data
58.5	72.419	6.476	57.015	53.738	46.507	Data
58.5	70.481	6.522	57.019	53.741	46.507	Data
60.5	68.909	6.510	57.063	53.739	46.504	Data
60.5	69.681	6.459	57.057	53.739	46.504	Data
61.75	68.909	6.510	57.063	53.739	46.504	Data
61.75	69.681	6.459	57.057	53.739	46.504	Data
63	68.909	6.510	57.063	53.739	46.504	Data
63	69.681	6.459	57.057	53.739	46.504	Data
64	68.909	6.510	57.063	53.739	46.504	Data
64	69.681	6.459	57.057	53.739	46.504	Data

Table 90: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=53.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.135	6.530	57.012	54.741	46.507	Data
8	71.114	6.472	57.022	54.74	46.506	Data
30	72.146	6.502	57.039	54.743	46.493	Data
30	68.822	6.526	57.060	54.735	46.505	Data
30	71.971	6.492	57.043	54.743	46.494	Data
30	69.861	6.449	57.066	54.734	46.443	Data
30	70.552	6.494	57.015	54.739	46.475	Data
30	70.135	6.530	57.012	54.741	46.507	Data
30	70.948	6.532	57.021	54.738	46.474	Data
30	71.114	6.472	57.022	54.74	46.506	Data
30	69.181	6.528	57.062	54.735	46.443	Data
30	69.492	6.517	57.056	54.735	46.505	Data
42	70.552	6.494	57.015	54.739	46.475	Data
42	70.948	6.532	57.021	54.738	46.474	Data
43	70.552	6.494	57.015	54.739	46.475	Data
43	70.948	6.532	57.021	54.738	46.474	Data
44	70.552	6.494	57.015	54.739	46.475	Data
44	70.948	6.532	57.021	54.738	46.474	Data
45	70.552	6.494	57.015	54.739	46.475	Data
45	70.948	6.532	57.021	54.738	46.474	Data
46.5	70.135	6.530	57.012	54.741	46.507	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	71.114	6.472	57.022	54.74	46.506	Data
48	69.181	6.528	57.062	54.735	46.443	Data
48	69.861	6.449	57.066	54.734	46.443	Data
49	69.181	6.528	57.062	54.735	46.443	Data
49	69.861	6.449	57.066	54.734	46.443	Data
50	69.181	6.528	57.062	54.735	46.443	Data
50	69.861	6.449	57.066	54.734	46.443	Data
51	69.181	6.528	57.062	54.735	46.443	Data
51	69.861	6.449	57.066	54.734	46.443	Data
52.5	70.135	6.530	57.012	54.741	46.507	Data
52.5	71.114	6.472	57.022	54.74	46.506	Data
54	71.971	6.492	57.043	54.743	46.494	Data
54	72.146	6.502	57.039	54.743	46.493	Data
55	71.971	6.492	57.043	54.743	46.494	Data
55	72.146	6.502	57.039	54.743	46.493	Data
56	71.971	6.492	57.043	54.743	46.494	Data
56	72.146	6.502	57.039	54.743	46.493	Data
57	71.971	6.492	57.043	54.743	46.494	Data
57	72.146	6.502	57.039	54.743	46.493	Data
58.5	71.114	6.472	57.022	54.74	46.506	Data
58.5	70.135	6.530	57.012	54.741	46.507	Data
60.5	69.492	6.517	57.056	54.735	46.505	Data
60.5	68.822	6.526	57.060	54.735	46.505	Data
61.75	69.492	6.517	57.056	54.735	46.505	Data
61.75	68.822	6.526	57.060	54.735	46.505	Data
63	69.492	6.517	57.056	54.735	46.505	Data
63	68.822	6.526	57.060	54.735	46.505	Data
64	68.822	6.526	57.060	54.735	46.505	Data
64	69.492	6.517	57.056	54.735	46.505	Data

Table 91: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.090	6.465	57.017	55.738	46.506	Data
8	71.417	6.490	57.020	55.738	46.506	Data
30	71.417	6.490	57.020	55.738	46.506	Data
30	69.725	6.470	57.062	55.738	46.444	Data
30	72.088	6.491	57.044	55.746	46.493	Data
30	69.220	6.508	57.059	55.741	46.505	Data
30	69.357	6.487	57.064	55.74	46.444	Data
30	70.934	6.567	57.016	55.742	46.472	Data
30	72.732	6.489	57.049	55.746	46.494	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.523	6.511	57.064	55.741	46.505	Data
30	71.090	6.465	57.017	55.738	46.506	Data
30	70.299	6.537	57.024	55.743	46.472	Data
42	70.934	6.567	57.016	55.742	46.472	Data
42	70.299	6.537	57.024	55.743	46.472	Data
43	70.934	6.567	57.016	55.742	46.472	Data
43	70.299	6.537	57.024	55.743	46.472	Data
44	70.299	6.537	57.024	55.743	46.472	Data
44	70.934	6.567	57.016	55.742	46.472	Data
45	70.299	6.537	57.024	55.743	46.472	Data
45	70.934	6.567	57.016	55.742	46.472	Data
46.5	71.417	6.490	57.020	55.738	46.506	Data
46.5	71.090	6.465	57.017	55.738	46.506	Data
48	69.357	6.487	57.064	55.74	46.444	Data
48	69.725	6.470	57.062	55.738	46.444	Data
49	69.357	6.487	57.064	55.74	46.444	Data
49	69.725	6.470	57.062	55.738	46.444	Data
50	69.357	6.487	57.064	55.74	46.444	Data
50	69.725	6.470	57.062	55.738	46.444	Data
51	69.357	6.487	57.064	55.74	46.444	Data
51	69.725	6.470	57.062	55.738	46.444	Data
52.5	71.417	6.490	57.020	55.738	46.506	Data
52.5	71.090	6.465	57.017	55.738	46.506	Data
54	72.088	6.491	57.044	55.746	46.493	Data
54	72.732	6.489	57.049	55.746	46.494	Data
55	72.732	6.489	57.049	55.746	46.494	Data
55	72.088	6.491	57.044	55.746	46.493	Data
56	72.732	6.489	57.049	55.746	46.494	Data
56	72.088	6.491	57.044	55.746	46.493	Data
57	72.088	6.491	57.044	55.746	46.493	Data
57	72.732	6.489	57.049	55.746	46.494	Data
58.5	71.417	6.490	57.020	55.738	46.506	Data
58.5	71.090	6.465	57.017	55.738	46.506	Data
60.5	69.220	6.508	57.059	55.741	46.505	Data
60.5	69.523	6.511	57.064	55.741	46.505	Data
61.75	69.220	6.508	57.059	55.741	46.505	Data
61.75	69.523	6.511	57.064	55.741	46.505	Data
63	69.220	6.508	57.059	55.741	46.505	Data
63	69.523	6.511	57.064	55.741	46.505	Data
64	69.220	6.508	57.059	55.741	46.505	Data
64	69.523	6.511	57.064	55.741	46.505	Data

Table 92: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=55.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.582	6.449	57.011	56.741	46.505	Data
8	70.772	6.534	57.015	56.742	46.506	Data
30	69.395	6.526	57.058	56.742	46.505	Data
30	70.139	6.465	57.070	56.739	46.450	Data
30	71.076	6.590	57.014	56.747	46.471	Data
30	71.582	6.449	57.011	56.741	46.505	Data
30	69.418	6.555	57.059	56.742	46.505	Data
30	70.537	6.516	57.048	56.75	46.493	Data
30	71.015	6.479	57.045	56.749	46.493	Data
30	69.560	6.467	57.063	56.739	46.449	Data
30	70.772	6.534	57.015	56.742	46.506	Data
30	70.729	6.521	57.019	56.747	46.471	Data
42	71.076	6.590	57.014	56.747	46.471	Data
42	70.729	6.521	57.019	56.747	46.471	Data
43	71.076	6.590	57.014	56.747	46.471	Data
43	70.729	6.521	57.019	56.747	46.471	Data
44	71.076	6.590	57.014	56.747	46.471	Data
44	70.729	6.521	57.019	56.747	46.471	Data
45	71.076	6.590	57.014	56.747	46.471	Data
45	70.729	6.521	57.019	56.747	46.471	Data
46.5	70.772	6.534	57.015	56.742	46.506	Data
46.5	71.582	6.449	57.011	56.741	46.505	Data
48	69.560	6.467	57.063	56.739	46.449	Data
48	70.139	6.465	57.070	56.739	46.450	Data
49	69.560	6.467	57.063	56.739	46.449	Data
49	70.139	6.465	57.070	56.739	46.450	Data
50	69.560	6.467	57.063	56.739	46.449	Data
50	70.139	6.465	57.070	56.739	46.450	Data
51	69.560	6.467	57.063	56.739	46.449	Data
51	70.139	6.465	57.070	56.739	46.450	Data
52.5	70.772	6.534	57.015	56.742	46.506	Data
52.5	71.582	6.449	57.011	56.741	46.505	Data
54	71.015	6.479	57.045	56.749	46.493	Data
54	70.537	6.516	57.048	56.75	46.493	Data
55	71.015	6.479	57.045	56.749	46.493	Data
55	70.537	6.516	57.048	56.75	46.493	Data
56	71.015	6.479	57.045	56.749	46.493	Data
56	70.537	6.516	57.048	56.75	46.493	Data
57	71.015	6.479	57.045	56.749	46.493	Data
57	70.537	6.516	57.048	56.75	46.493	Data
58.5	70.772	6.534	57.015	56.742	46.506	Data
58.5	71.582	6.449	57.011	56.741	46.505	Data
60.5	69.395	6.526	57.058	56.742	46.505	Data
60.5	69.418	6.555	57.059	56.742	46.505	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.418	6.555	57.059	56.742	46.505	Data
61.75	69.395	6.526	57.058	56.742	46.505	Data
63	69.395	6.526	57.058	56.742	46.505	Data
63	69.418	6.555	57.059	56.742	46.505	Data
64	69.395	6.526	57.058	56.742	46.505	Data
64	69.418	6.555	57.059	56.742	46.505	Data

Table 93: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.713	6.542	57.012	57.757	46.505	Data
8	71.589	6.541	57.013	57.756	46.506	Data
30	69.771	6.510	57.071	57.756	46.452	Data
30	70.774	6.510	57.045	57.758	46.493	Data
30	71.713	6.542	57.012	57.757	46.505	Data
30	69.413	6.527	57.056	57.754	46.508	Data
30	69.636	6.474	57.059	57.754	46.506	Data
30	71.589	6.541	57.013	57.756	46.506	Data
30	70.805	6.507	57.018	57.759	46.466	Data
30	71.252	6.538	57.020	57.76	46.469	Data
30	70.218	6.481	57.077	57.755	46.453	Data
30	70.648	6.531	57.051	57.757	46.493	Data
42	70.805	6.507	57.018	57.759	46.466	Data
42	71.252	6.538	57.020	57.76	46.469	Data
43	70.805	6.507	57.018	57.759	46.466	Data
43	71.252	6.538	57.020	57.76	46.469	Data
44	70.805	6.507	57.018	57.759	46.466	Data
44	71.252	6.538	57.020	57.76	46.469	Data
45	70.805	6.507	57.018	57.759	46.466	Data
45	71.252	6.538	57.020	57.76	46.469	Data
46.5	71.589	6.541	57.013	57.756	46.506	Data
46.5	71.713	6.542	57.012	57.757	46.505	Data
48	69.771	6.510	57.071	57.756	46.452	Data
48	70.218	6.481	57.077	57.755	46.453	Data
49	69.771	6.510	57.071	57.756	46.452	Data
49	70.218	6.481	57.077	57.755	46.453	Data
50	69.771	6.510	57.071	57.756	46.452	Data
50	70.218	6.481	57.077	57.755	46.453	Data
51	69.771	6.510	57.071	57.756	46.452	Data
51	70.218	6.481	57.077	57.755	46.453	Data
52.5	71.713	6.542	57.012	57.757	46.505	Data
52.5	71.589	6.541	57.013	57.756	46.506	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	70.774	6.510	57.045	57.758	46.493	Data
54	70.648	6.531	57.051	57.757	46.493	Data
55	70.774	6.510	57.045	57.758	46.493	Data
55	70.648	6.531	57.051	57.757	46.493	Data
56	70.774	6.510	57.045	57.758	46.493	Data
56	70.648	6.531	57.051	57.757	46.493	Data
57	70.774	6.510	57.045	57.758	46.493	Data
57	70.648	6.531	57.051	57.757	46.493	Data
58.5	71.713	6.542	57.012	57.757	46.505	Data
58.5	71.589	6.541	57.013	57.756	46.506	Data
60.5	69.636	6.474	57.059	57.754	46.506	Data
60.5	69.413	6.527	57.056	57.754	46.508	Data
61.75	69.636	6.474	57.059	57.754	46.506	Data
61.75	69.413	6.527	57.056	57.754	46.508	Data
63	69.636	6.474	57.059	57.754	46.506	Data
63	69.413	6.527	57.056	57.754	46.508	Data
64	69.636	6.474	57.059	57.754	46.506	Data
64	69.413	6.527	57.056	57.754	46.508	Data

Table 94: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=57.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.692	6.505	57.016	58.753	46.505	Data
8	71.996	6.523	57.008	58.753	46.505	Data
30	70.365	6.440	57.071	58.754	46.461	Data
30	69.904	6.502	57.066	58.755	46.462	Data
30	71.996	6.523	57.008	58.753	46.505	Data
30	70.572	6.536	57.025	58.755	46.463	Data
30	71.308	6.499	57.047	58.747	46.493	Data
30	69.489	6.551	57.054	58.758	46.510	Data
30	71.576	6.517	57.045	58.747	46.492	Data
30	71.324	6.500	57.019	58.756	46.462	Data
30	70.149	6.451	57.051	58.757	46.512	Data
30	71.692	6.505	57.016	58.753	46.505	Data
42	70.572	6.536	57.025	58.755	46.463	Data
42	71.324	6.500	57.019	58.756	46.462	Data
43	70.572	6.536	57.025	58.755	46.463	Data
43	71.324	6.500	57.019	58.756	46.462	Data
44	70.572	6.536	57.025	58.755	46.463	Data
44	71.324	6.500	57.019	58.756	46.462	Data
45	70.572	6.536	57.025	58.755	46.463	Data
45	71.324	6.500	57.019	58.756	46.462	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	71.996	6.523	57.008	58.753	46.505	Data
46.5	71.692	6.505	57.016	58.753	46.505	Data
48	70.365	6.440	57.071	58.754	46.461	Data
48	69.904	6.502	57.066	58.755	46.462	Data
49	70.365	6.440	57.071	58.754	46.461	Data
49	69.904	6.502	57.066	58.755	46.462	Data
50	70.365	6.440	57.071	58.754	46.461	Data
50	69.904	6.502	57.066	58.755	46.462	Data
51	69.904	6.502	57.066	58.755	46.462	Data
51	70.365	6.440	57.071	58.754	46.461	Data
52.5	71.692	6.505	57.016	58.753	46.505	Data
52.5	71.996	6.523	57.008	58.753	46.505	Data
54	71.576	6.517	57.045	58.747	46.492	Data
54	71.308	6.499	57.047	58.747	46.493	Data
55	71.576	6.517	57.045	58.747	46.492	Data
55	71.308	6.499	57.047	58.747	46.493	Data
56	71.576	6.517	57.045	58.747	46.492	Data
56	71.308	6.499	57.047	58.747	46.493	Data
57	71.576	6.517	57.045	58.747	46.492	Data
57	71.308	6.499	57.047	58.747	46.493	Data
58.5	71.692	6.505	57.016	58.753	46.505	Data
58.5	71.996	6.523	57.008	58.753	46.505	Data
60.5	70.149	6.451	57.051	58.757	46.512	Data
60.5	69.489	6.551	57.054	58.758	46.510	Data
61.75	70.149	6.451	57.051	58.757	46.512	Data
61.75	69.489	6.551	57.054	58.758	46.510	Data
63	70.149	6.451	57.051	58.757	46.512	Data
63	69.489	6.551	57.054	58.758	46.510	Data
64	70.149	6.451	57.051	58.757	46.512	Data
64	69.489	6.551	57.054	58.758	46.510	Data

Table 95: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.565	6.467	57.012	59.754	46.505	Data
8	71.083	6.504	57.008	59.753	46.505	Data
30	70.849	6.551	57.013	59.758	46.462	Data
30	70.565	6.467	57.012	59.754	46.505	Data
30	71.537	6.524	57.013	59.758	46.458	Data
30	70.413	6.480	57.070	59.757	46.470	Data
30	69.750	6.474	57.056	59.755	46.508	Data
30	71.083	6.504	57.008	59.753	46.505	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.134	6.508	57.069	59.756	46.473	Data
30	70.795	6.507	57.048	59.745	46.493	Data
30	71.176	6.487	57.050	59.745	46.493	Data
30	69.968	6.491	57.052	59.757	46.507	Data
42	70.849	6.551	57.013	59.758	46.462	Data
42	71.537	6.524	57.013	59.758	46.458	Data
43	70.849	6.551	57.013	59.758	46.462	Data
43	71.537	6.524	57.013	59.758	46.458	Data
44	70.849	6.551	57.013	59.758	46.462	Data
44	71.537	6.524	57.013	59.758	46.458	Data
45	70.849	6.551	57.013	59.758	46.462	Data
45	71.537	6.524	57.013	59.758	46.458	Data
46.5	70.565	6.467	57.012	59.754	46.505	Data
46.5	71.083	6.504	57.008	59.753	46.505	Data
48	70.134	6.508	57.069	59.756	46.473	Data
48	70.413	6.480	57.070	59.757	46.470	Data
49	70.134	6.508	57.069	59.756	46.473	Data
49	70.413	6.480	57.070	59.757	46.470	Data
50	70.134	6.508	57.069	59.756	46.473	Data
50	70.413	6.480	57.070	59.757	46.470	Data
51	70.134	6.508	57.069	59.756	46.473	Data
51	70.413	6.480	57.070	59.757	46.470	Data
52.5	70.565	6.467	57.012	59.754	46.505	Data
52.5	71.083	6.504	57.008	59.753	46.505	Data
54	70.795	6.507	57.048	59.745	46.493	Data
54	71.176	6.487	57.050	59.745	46.493	Data
55	70.795	6.507	57.048	59.745	46.493	Data
55	71.176	6.487	57.050	59.745	46.493	Data
56	70.795	6.507	57.048	59.745	46.493	Data
56	71.176	6.487	57.050	59.745	46.493	Data
57	70.795	6.507	57.048	59.745	46.493	Data
57	71.176	6.487	57.050	59.745	46.493	Data
58.5	70.565	6.467	57.012	59.754	46.505	Data
58.5	71.083	6.504	57.008	59.753	46.505	Data
60.5	69.968	6.491	57.052	59.757	46.507	Data
60.5	69.750	6.474	57.056	59.755	46.508	Data
61.75	69.968	6.491	57.052	59.757	46.507	Data
61.75	69.750	6.474	57.056	59.755	46.508	Data
63	69.968	6.491	57.052	59.757	46.507	Data
63	69.750	6.474	57.056	59.755	46.508	Data
64	69.750	6.474	57.056	59.755	46.508	Data
64	69.968	6.491	57.052	59.757	46.507	Data

Table 96: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=59.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.492	6.475	57.020	60.761	46.504	Data
8	71.570	6.469	57.009	60.76	46.504	Data
8	71.079	6.542	57.008	60.761	46.504	Data
30	69.962	6.491	57.054	60.757	46.509	Data
30	71.570	6.469	57.009	60.76	46.504	Data
30	71.237	6.502	57.050	60.751	46.492	Data
30	70.615	6.505	57.068	60.764	46.485	Data
30	70.923	6.506	57.051	60.75	46.493	Data
30	71.079	6.542	57.008	60.761	46.504	Data
30	70.557	6.508	57.070	60.764	46.492	Data
30	71.190	6.522	57.010	60.765	46.455	Data
30	69.787	6.538	57.058	60.758	46.508	Data
30	70.807	6.479	57.023	60.765	46.458	Data
30	70.492	6.475	57.020	60.761	46.504	Data
42	71.190	6.522	57.010	60.765	46.455	Data
42	70.807	6.479	57.023	60.765	46.458	Data
43	71.190	6.522	57.010	60.765	46.455	Data
43	70.807	6.479	57.023	60.765	46.458	Data
44	71.190	6.522	57.010	60.765	46.455	Data
44	70.807	6.479	57.023	60.765	46.458	Data
45	70.807	6.479	57.023	60.765	46.458	Data
45	71.190	6.522	57.010	60.765	46.455	Data
46.5	71.079	6.542	57.008	60.761	46.504	Data
46.5	71.570	6.469	57.009	60.76	46.504	Data
46.5	70.492	6.475	57.020	60.761	46.504	Data
48	70.615	6.505	57.068	60.764	46.485	Data
48	70.557	6.508	57.070	60.764	46.492	Data
49	70.615	6.505	57.068	60.764	46.485	Data
49	70.557	6.508	57.070	60.764	46.492	Data
50	70.615	6.505	57.068	60.764	46.485	Data
50	70.557	6.508	57.070	60.764	46.492	Data
51	70.615	6.505	57.068	60.764	46.485	Data
51	70.557	6.508	57.070	60.764	46.492	Data
52.5	71.079	6.542	57.008	60.761	46.504	Data
52.5	71.570	6.469	57.009	60.76	46.504	Data
52.5	70.492	6.475	57.020	60.761	46.504	Data
54	70.923	6.506	57.051	60.75	46.493	Data
54	71.237	6.502	57.050	60.751	46.492	Data
55	70.923	6.506	57.051	60.75	46.493	Data
55	71.237	6.502	57.050	60.751	46.492	Data
56	70.923	6.506	57.051	60.75	46.493	Data
56	71.237	6.502	57.050	60.751	46.492	Data
57	70.923	6.506	57.051	60.75	46.493	Data
57	71.237	6.502	57.050	60.751	46.492	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
58.5	71.079	6.542	57.008	60.761	46.504	Data
58.5	70.492	6.475	57.020	60.761	46.504	Data
58.5	71.570	6.469	57.009	60.76	46.504	Data
60.5	69.787	6.538	57.058	60.758	46.508	Data
60.5	69.962	6.491	57.054	60.757	46.509	Data
61.75	69.962	6.491	57.054	60.757	46.509	Data
61.75	69.787	6.538	57.058	60.758	46.508	Data
63	69.962	6.491	57.054	60.757	46.509	Data
63	69.787	6.538	57.058	60.758	46.508	Data
64	69.962	6.491	57.054	60.757	46.509	Data
64	69.787	6.538	57.058	60.758	46.508	Data

Table 97: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=60.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=61.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.932	6.453	57.013	61.75	46.508	Data
30	71.065	6.477	57.056	61.745	46.478	Data
30	70.213	6.500	57.050	61.744	46.479	Data
30	70.932	6.453	57.013	61.75	46.508	Data
46.5	70.932	6.453	57.013	61.75	46.508	Data
52.5	70.932	6.453	57.013	61.75	46.508	Data
58.5	70.932	6.453	57.013	61.75	46.508	Data
60.5	70.213	6.500	57.050	61.744	46.479	Data
60.5	71.065	6.477	57.056	61.745	46.478	Data
61.75	70.213	6.500	57.050	61.744	46.479	Data
61.75	71.065	6.477	57.056	61.745	46.478	Data
63	71.065	6.477	57.056	61.745	46.478	Data
63	70.213	6.500	57.050	61.744	46.479	Data
64	70.213	6.500	57.050	61.744	46.479	Data
64	71.065	6.477	57.056	61.745	46.478	Data

Table 98: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=61.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=62.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.386	6.500	57.016	62.767	46.508	Data
8	71.219	6.512	57.006	62.766	46.507	Data
30	71.386	6.500	57.016	62.767	46.508	Data
30	70.699	6.485	57.047	62.77	46.471	Data
30	71.219	6.512	57.006	62.766	46.507	Data
30	70.279	6.497	57.046	62.771	46.471	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=62.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	71.219	6.512	57.006	62.766	46.507	Data
46.5	71.386	6.500	57.016	62.767	46.508	Data
52.5	71.219	6.512	57.006	62.766	46.507	Data
52.5	71.386	6.500	57.016	62.767	46.508	Data
58.5	71.219	6.512	57.006	62.766	46.507	Data
58.5	71.386	6.500	57.016	62.767	46.508	Data
60.5	70.279	6.497	57.046	62.771	46.471	Data
60.5	70.699	6.485	57.047	62.77	46.471	Data
61.75	70.279	6.497	57.046	62.771	46.471	Data
61.75	70.699	6.485	57.047	62.77	46.471	Data
63	70.699	6.485	57.047	62.77	46.471	Data
63	70.279	6.497	57.046	62.771	46.471	Data
64	70.699	6.485	57.047	62.77	46.471	Data
64	70.279	6.497	57.046	62.771	46.471	Data

Table 99: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 — VG at span y=62.5 (in)

D.9. Horizontal VG vortex sweep at height z=44.5, q=70, α_{VG}=8, α_W=7, RO-tip

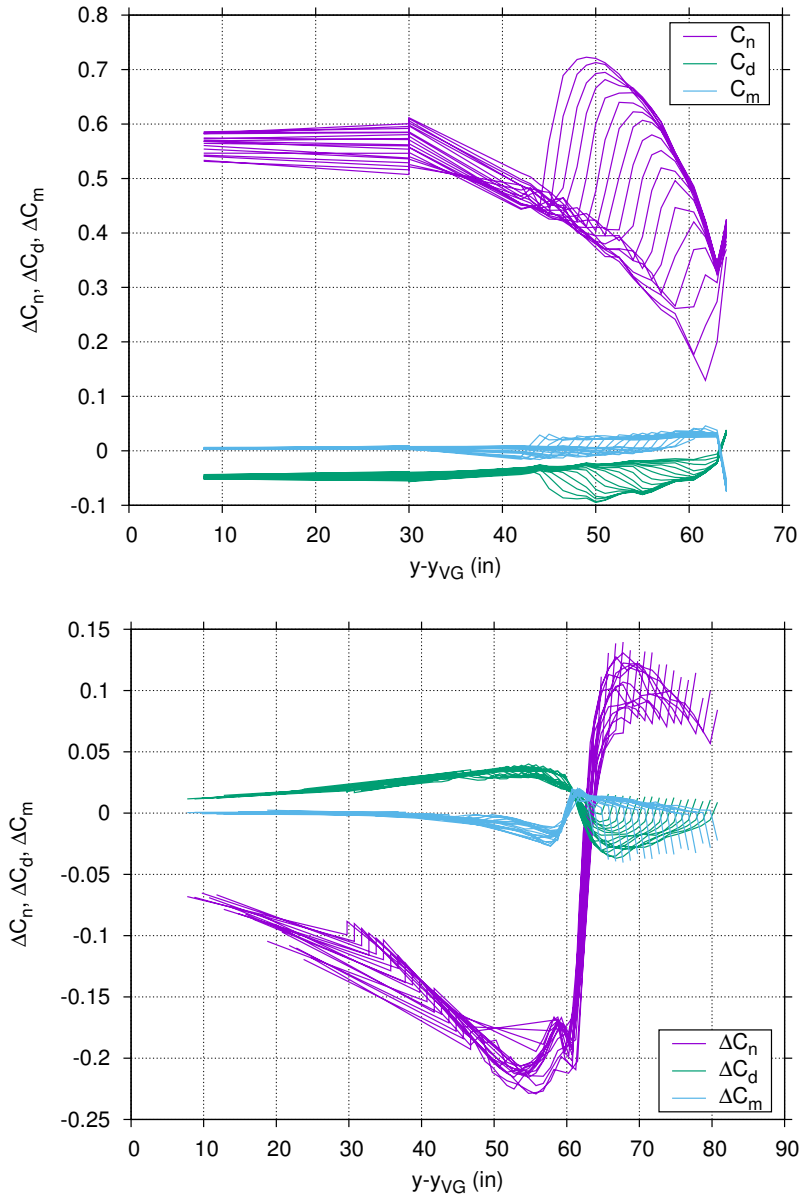

Figure 62. VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — (Data)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.310	6.518	57.012	43.745	44.493	Data
8	69.146	6.495	57.020	43.744	44.493	Data
30	68.083	6.510	57.043	43.757	44.471	Data
30	68.351	6.507	57.055	43.749	44.510	Data
30	68.616	6.507	57.055	43.748	44.510	Data
30	69.618	6.500	57.070	43.743	44.491	Data
30	70.368	6.483	57.060	43.744	44.493	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.645	6.559	57.017	43.757	44.497	Data
30	67.808	6.535	57.050	43.757	44.470	Data
30	69.310	6.518	57.012	43.745	44.493	Data
30	69.146	6.495	57.020	43.744	44.493	Data
30	68.302	6.548	57.031	43.756	44.497	Data
42	68.645	6.559	57.017	43.757	44.497	Data
42	68.302	6.548	57.031	43.756	44.497	Data
43	68.645	6.559	57.017	43.757	44.497	Data
43	68.302	6.548	57.031	43.756	44.497	Data
44	68.645	6.559	57.017	43.757	44.497	Data
44	68.302	6.548	57.031	43.756	44.497	Data
45	68.302	6.548	57.031	43.756	44.497	Data
45	68.645	6.559	57.017	43.757	44.497	Data
46.5	69.310	6.518	57.012	43.745	44.493	Data
46.5	69.146	6.495	57.020	43.744	44.493	Data
48	70.368	6.483	57.060	43.744	44.493	Data
48	69.618	6.500	57.070	43.743	44.491	Data
49	70.368	6.483	57.060	43.744	44.493	Data
49	69.618	6.500	57.070	43.743	44.491	Data
50	70.368	6.483	57.060	43.744	44.493	Data
50	69.618	6.500	57.070	43.743	44.491	Data
51	70.368	6.483	57.060	43.744	44.493	Data
51	69.618	6.500	57.070	43.743	44.491	Data
52.5	69.310	6.518	57.012	43.745	44.493	Data
52.5	69.146	6.495	57.020	43.744	44.493	Data
54	68.083	6.510	57.043	43.757	44.471	Data
54	67.808	6.535	57.050	43.757	44.470	Data
55	68.083	6.510	57.043	43.757	44.471	Data
55	67.808	6.535	57.050	43.757	44.470	Data
56	68.083	6.510	57.043	43.757	44.471	Data
56	67.808	6.535	57.050	43.757	44.470	Data
57	68.083	6.510	57.043	43.757	44.471	Data
57	67.808	6.535	57.050	43.757	44.470	Data
58.5	69.310	6.518	57.012	43.745	44.493	Data
58.5	69.146	6.495	57.020	43.744	44.493	Data
60.5	68.616	6.507	57.055	43.748	44.510	Data
60.5	68.351	6.507	57.055	43.749	44.510	Data
61.75	68.616	6.507	57.055	43.748	44.510	Data
61.75	68.351	6.507	57.055	43.749	44.510	Data
63	68.616	6.507	57.055	43.748	44.510	Data
63	68.351	6.507	57.055	43.749	44.510	Data
64	68.616	6.507	57.055	43.748	44.510	Data
64	68.351	6.507	57.055	43.749	44.510	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 100: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.098	6.520	57.016	44.737	44.492	Data
8	68.199	6.525	57.017	44.736	44.493	Data
30	69.264	6.488	57.059	44.732	44.487	Data
30	68.282	6.567	57.018	44.746	44.496	Data
30	68.392	6.567	57.016	44.747	44.497	Data
30	68.322	6.531	57.052	44.747	44.471	Data
30	68.098	6.520	57.016	44.737	44.492	Data
30	68.260	6.504	57.045	44.747	44.471	Data
30	68.199	6.525	57.017	44.736	44.493	Data
30	69.564	6.537	57.055	44.733	44.509	Data
30	68.727	6.550	57.057	44.733	44.509	Data
30	69.750	6.476	57.067	44.731	44.488	Data
42	68.392	6.567	57.016	44.747	44.497	Data
42	68.282	6.567	57.018	44.746	44.496	Data
43	68.392	6.567	57.016	44.747	44.497	Data
43	68.282	6.567	57.018	44.746	44.496	Data
44	68.282	6.567	57.018	44.746	44.496	Data
44	68.392	6.567	57.016	44.747	44.497	Data
45	68.282	6.567	57.018	44.746	44.496	Data
45	68.392	6.567	57.016	44.747	44.497	Data
46.5	68.098	6.520	57.016	44.737	44.492	Data
46.5	68.199	6.525	57.017	44.736	44.493	Data
48	69.264	6.488	57.059	44.732	44.487	Data
48	69.750	6.476	57.067	44.731	44.488	Data
49	69.264	6.488	57.059	44.732	44.487	Data
49	69.750	6.476	57.067	44.731	44.488	Data
50	69.264	6.488	57.059	44.732	44.487	Data
50	69.750	6.476	57.067	44.731	44.488	Data
51	69.264	6.488	57.059	44.732	44.487	Data
51	69.750	6.476	57.067	44.731	44.488	Data
52.5	68.199	6.525	57.017	44.736	44.493	Data
52.5	68.098	6.520	57.016	44.737	44.492	Data
54	68.322	6.531	57.052	44.747	44.471	Data
54	68.260	6.504	57.045	44.747	44.471	Data
55	68.322	6.531	57.052	44.747	44.471	Data
55	68.260	6.504	57.045	44.747	44.471	Data
56	68.322	6.531	57.052	44.747	44.471	Data
56	68.260	6.504	57.045	44.747	44.471	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	68.322	6.531	57.052	44.747	44.471	Data
57	68.260	6.504	57.045	44.747	44.471	Data
58.5	68.199	6.525	57.017	44.736	44.493	Data
58.5	68.098	6.520	57.016	44.737	44.492	Data
60.5	69.564	6.537	57.055	44.733	44.509	Data
60.5	68.727	6.550	57.057	44.733	44.509	Data
61.75	69.564	6.537	57.055	44.733	44.509	Data
61.75	68.727	6.550	57.057	44.733	44.509	Data
63	69.564	6.537	57.055	44.733	44.509	Data
63	68.727	6.550	57.057	44.733	44.509	Data
64	68.727	6.550	57.057	44.733	44.509	Data
64	69.564	6.537	57.055	44.733	44.509	Data

Table 101: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.441	6.547	57.013	45.738	44.492	Data
8	68.687	6.462	57.017	45.738	44.492	Data
30	68.745	6.473	57.051	45.746	44.471	Data
30	69.622	6.486	57.060	45.728	44.484	Data
30	68.561	6.449	57.050	45.746	44.471	Data
30	68.441	6.547	57.013	45.738	44.492	Data
30	69.066	6.516	57.045	45.726	44.509	Data
30	70.097	6.504	57.067	45.727	44.484	Data
30	69.099	6.539	57.024	45.741	44.497	Data
30	68.760	6.492	57.055	45.727	44.510	Data
30	68.862	6.545	57.018	45.741	44.497	Data
30	68.687	6.462	57.017	45.738	44.492	Data
42	68.862	6.545	57.018	45.741	44.497	Data
42	69.099	6.539	57.024	45.741	44.497	Data
43	68.862	6.545	57.018	45.741	44.497	Data
43	69.099	6.539	57.024	45.741	44.497	Data
44	68.862	6.545	57.018	45.741	44.497	Data
44	69.099	6.539	57.024	45.741	44.497	Data
45	69.099	6.539	57.024	45.741	44.497	Data
45	68.862	6.545	57.018	45.741	44.497	Data
46.5	68.441	6.547	57.013	45.738	44.492	Data
46.5	68.687	6.462	57.017	45.738	44.492	Data
48	69.622	6.486	57.060	45.728	44.484	Data
48	70.097	6.504	57.067	45.727	44.484	Data
49	69.622	6.486	57.060	45.728	44.484	Data
49	70.097	6.504	57.067	45.727	44.484	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	69.622	6.486	57.060	45.728	44.484	Data
50	70.097	6.504	57.067	45.727	44.484	Data
51	69.622	6.486	57.060	45.728	44.484	Data
51	70.097	6.504	57.067	45.727	44.484	Data
52.5	68.687	6.462	57.017	45.738	44.492	Data
52.5	68.441	6.547	57.013	45.738	44.492	Data
54	68.745	6.473	57.051	45.746	44.471	Data
54	68.561	6.449	57.050	45.746	44.471	Data
55	68.745	6.473	57.051	45.746	44.471	Data
55	68.561	6.449	57.050	45.746	44.471	Data
56	68.745	6.473	57.051	45.746	44.471	Data
56	68.561	6.449	57.050	45.746	44.471	Data
57	68.745	6.473	57.051	45.746	44.471	Data
57	68.561	6.449	57.050	45.746	44.471	Data
58.5	68.441	6.547	57.013	45.738	44.492	Data
58.5	68.687	6.462	57.017	45.738	44.492	Data
60.5	69.066	6.516	57.045	45.726	44.509	Data
60.5	68.760	6.492	57.055	45.727	44.510	Data
61.75	69.066	6.516	57.045	45.726	44.509	Data
61.75	68.760	6.492	57.055	45.727	44.510	Data
63	69.066	6.516	57.045	45.726	44.509	Data
63	68.760	6.492	57.055	45.727	44.510	Data
64	69.066	6.516	57.045	45.726	44.509	Data
64	68.760	6.492	57.055	45.727	44.510	Data

Table 102: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=45.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	67.836	6.507	57.017	46.734	44.492	Data
8	68.367	6.459	57.009	46.734	44.492	Data
30	69.901	6.506	57.064	46.739	44.504	Data
30	67.836	6.507	57.017	46.734	44.492	Data
30	69.205	6.509	57.056	46.731	44.509	Data
30	69.086	6.528	57.020	46.734	44.497	Data
30	69.041	6.513	57.052	46.743	44.472	Data
30	68.817	6.520	57.047	46.743	44.472	Data
30	68.367	6.459	57.009	46.734	44.492	Data
30	69.600	6.505	57.059	46.729	44.508	Data
30	69.215	6.473	57.067	46.739	44.503	Data
30	69.440	6.574	57.013	46.735	44.497	Data
42	69.086	6.528	57.020	46.734	44.497	Data
42	69.440	6.574	57.013	46.735	44.497	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	69.086	6.528	57.020	46.734	44.497	Data
43	69.440	6.574	57.013	46.735	44.497	Data
44	69.086	6.528	57.020	46.734	44.497	Data
44	69.440	6.574	57.013	46.735	44.497	Data
45	69.086	6.528	57.020	46.734	44.497	Data
45	69.440	6.574	57.013	46.735	44.497	Data
46.5	67.836	6.507	57.017	46.734	44.492	Data
46.5	68.367	6.459	57.009	46.734	44.492	Data
48	69.215	6.473	57.067	46.739	44.503	Data
48	69.901	6.506	57.064	46.739	44.504	Data
49	69.215	6.473	57.067	46.739	44.503	Data
49	69.901	6.506	57.064	46.739	44.504	Data
50	69.901	6.506	57.064	46.739	44.504	Data
50	69.215	6.473	57.067	46.739	44.503	Data
51	69.901	6.506	57.064	46.739	44.504	Data
51	69.215	6.473	57.067	46.739	44.503	Data
52.5	67.836	6.507	57.017	46.734	44.492	Data
52.5	68.367	6.459	57.009	46.734	44.492	Data
54	69.041	6.513	57.052	46.743	44.472	Data
54	68.817	6.520	57.047	46.743	44.472	Data
55	69.041	6.513	57.052	46.743	44.472	Data
55	68.817	6.520	57.047	46.743	44.472	Data
56	69.041	6.513	57.052	46.743	44.472	Data
56	68.817	6.520	57.047	46.743	44.472	Data
57	69.041	6.513	57.052	46.743	44.472	Data
57	68.817	6.520	57.047	46.743	44.472	Data
58.5	67.836	6.507	57.017	46.734	44.492	Data
58.5	68.367	6.459	57.009	46.734	44.492	Data
60.5	69.600	6.505	57.059	46.729	44.508	Data
60.5	69.205	6.509	57.056	46.731	44.509	Data
61.75	69.600	6.505	57.059	46.729	44.508	Data
61.75	69.205	6.509	57.056	46.731	44.509	Data
63	69.600	6.505	57.059	46.729	44.508	Data
63	69.205	6.509	57.056	46.731	44.509	Data
64	69.600	6.505	57.059	46.729	44.508	Data
64	69.205	6.509	57.056	46.731	44.509	Data

Table 103: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.148	6.501	57.012	47.736	44.491	Data
8	68.956	6.511	57.012	47.735	44.492	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.197	6.492	57.057	47.739	44.509	Data
30	68.809	6.451	57.052	47.744	44.472	Data
30	69.348	6.486	57.062	47.742	44.504	Data
30	68.912	6.520	57.051	47.746	44.472	Data
30	68.330	6.593	57.018	47.748	44.497	Data
30	68.520	6.555	57.016	47.748	44.496	Data
30	69.695	6.491	57.067	47.743	44.502	Data
30	69.148	6.501	57.012	47.736	44.491	Data
30	68.956	6.511	57.012	47.735	44.492	Data
30	69.792	6.483	57.059	47.739	44.509	Data
42	68.330	6.593	57.018	47.748	44.497	Data
42	68.520	6.555	57.016	47.748	44.496	Data
43	68.330	6.593	57.018	47.748	44.497	Data
43	68.520	6.555	57.016	47.748	44.496	Data
44	68.330	6.593	57.018	47.748	44.497	Data
44	68.520	6.555	57.016	47.748	44.496	Data
45	68.330	6.593	57.018	47.748	44.497	Data
45	68.520	6.555	57.016	47.748	44.496	Data
46.5	69.148	6.501	57.012	47.736	44.491	Data
46.5	68.956	6.511	57.012	47.735	44.492	Data
48	69.348	6.486	57.062	47.742	44.504	Data
48	69.695	6.491	57.067	47.743	44.502	Data
49	69.695	6.491	57.067	47.743	44.502	Data
49	69.348	6.486	57.062	47.742	44.504	Data
50	69.695	6.491	57.067	47.743	44.502	Data
50	69.348	6.486	57.062	47.742	44.504	Data
51	69.695	6.491	57.067	47.743	44.502	Data
51	69.348	6.486	57.062	47.742	44.504	Data
52.5	69.148	6.501	57.012	47.736	44.491	Data
52.5	68.956	6.511	57.012	47.735	44.492	Data
54	68.912	6.520	57.051	47.746	44.472	Data
54	68.809	6.451	57.052	47.744	44.472	Data
55	68.912	6.520	57.051	47.746	44.472	Data
55	68.809	6.451	57.052	47.744	44.472	Data
56	68.912	6.520	57.051	47.746	44.472	Data
56	68.809	6.451	57.052	47.744	44.472	Data
57	68.912	6.520	57.051	47.746	44.472	Data
57	68.809	6.451	57.052	47.744	44.472	Data
58.5	69.148	6.501	57.012	47.736	44.491	Data
58.5	68.956	6.511	57.012	47.735	44.492	Data
60.5	70.197	6.492	57.057	47.739	44.509	Data
60.5	69.792	6.483	57.059	47.739	44.509	Data
61.75	70.197	6.492	57.057	47.739	44.509	Data
61.75	69.792	6.483	57.059	47.739	44.509	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	70.197	6.492	57.057	47.739	44.509	Data
63	69.792	6.483	57.059	47.739	44.509	Data
64	70.197	6.492	57.057	47.739	44.509	Data
64	69.792	6.483	57.059	47.739	44.509	Data

Table 104: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=47.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.184	6.458	57.014	48.75	44.491	Data
8	68.342	6.505	57.013	48.751	44.491	Data
30	68.680	6.480	57.047	48.756	44.473	Data
30	69.103	6.490	57.019	48.748	44.497	Data
30	69.879	6.498	57.067	48.746	44.502	Data
30	70.017	6.542	57.053	48.739	44.509	Data
30	69.813	6.555	57.050	48.738	44.509	Data
30	69.187	6.442	57.051	48.756	44.473	Data
30	69.085	6.482	57.062	48.746	44.502	Data
30	68.498	6.556	57.020	48.749	44.497	Data
30	68.342	6.505	57.013	48.751	44.491	Data
30	69.184	6.458	57.014	48.75	44.491	Data
42	69.103	6.490	57.019	48.748	44.497	Data
42	68.498	6.556	57.020	48.749	44.497	Data
43	69.103	6.490	57.019	48.748	44.497	Data
43	68.498	6.556	57.020	48.749	44.497	Data
44	69.103	6.490	57.019	48.748	44.497	Data
44	68.498	6.556	57.020	48.749	44.497	Data
45	69.103	6.490	57.019	48.748	44.497	Data
45	68.498	6.556	57.020	48.749	44.497	Data
46.5	69.184	6.458	57.014	48.75	44.491	Data
46.5	68.342	6.505	57.013	48.751	44.491	Data
48	69.085	6.482	57.062	48.746	44.502	Data
48	69.879	6.498	57.067	48.746	44.502	Data
49	69.085	6.482	57.062	48.746	44.502	Data
49	69.879	6.498	57.067	48.746	44.502	Data
50	69.879	6.498	57.067	48.746	44.502	Data
50	69.085	6.482	57.062	48.746	44.502	Data
51	69.879	6.498	57.067	48.746	44.502	Data
51	69.085	6.482	57.062	48.746	44.502	Data
52.5	69.184	6.458	57.014	48.75	44.491	Data
52.5	68.342	6.505	57.013	48.751	44.491	Data
54	68.680	6.480	57.047	48.756	44.473	Data
54	69.187	6.442	57.051	48.756	44.473	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	68.680	6.480	57.047	48.756	44.473	Data
55	69.187	6.442	57.051	48.756	44.473	Data
56	68.680	6.480	57.047	48.756	44.473	Data
56	69.187	6.442	57.051	48.756	44.473	Data
57	68.680	6.480	57.047	48.756	44.473	Data
57	69.187	6.442	57.051	48.756	44.473	Data
58.5	69.184	6.458	57.014	48.75	44.491	Data
58.5	68.342	6.505	57.013	48.751	44.491	Data
60.5	70.017	6.542	57.053	48.739	44.509	Data
60.5	69.813	6.555	57.050	48.738	44.509	Data
61.75	70.017	6.542	57.053	48.739	44.509	Data
61.75	69.813	6.555	57.050	48.738	44.509	Data
63	70.017	6.542	57.053	48.739	44.509	Data
63	69.813	6.555	57.050	48.738	44.509	Data
64	69.813	6.555	57.050	48.738	44.509	Data
64	70.017	6.542	57.053	48.739	44.509	Data

Table 105: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.578	6.501	57.017	49.745	44.491	Data
8	68.898	6.520	57.016	49.745	44.491	Data
30	68.578	6.501	57.017	49.745	44.491	Data
30	69.914	6.476	57.067	49.751	44.502	Data
30	69.731	6.491	57.068	49.75	44.502	Data
30	69.804	6.484	57.054	49.757	44.473	Data
30	69.202	6.484	57.044	49.758	44.474	Data
30	70.098	6.473	57.054	49.748	44.509	Data
30	68.790	6.544	57.015	49.747	44.497	Data
30	68.898	6.520	57.016	49.745	44.491	Data
30	69.895	6.532	57.046	49.747	44.508	Data
30	69.156	6.539	57.018	49.747	44.496	Data
42	68.790	6.544	57.015	49.747	44.497	Data
42	69.156	6.539	57.018	49.747	44.496	Data
43	68.790	6.544	57.015	49.747	44.497	Data
43	69.156	6.539	57.018	49.747	44.496	Data
44	68.790	6.544	57.015	49.747	44.497	Data
44	69.156	6.539	57.018	49.747	44.496	Data
45	68.790	6.544	57.015	49.747	44.497	Data
45	69.156	6.539	57.018	49.747	44.496	Data
46.5	68.578	6.501	57.017	49.745	44.491	Data
46.5	68.898	6.520	57.016	49.745	44.491	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	69.914	6.476	57.067	49.751	44.502	Data
48	69.731	6.491	57.068	49.75	44.502	Data
49	69.914	6.476	57.067	49.751	44.502	Data
49	69.731	6.491	57.068	49.75	44.502	Data
50	69.731	6.491	57.068	49.75	44.502	Data
50	69.914	6.476	57.067	49.751	44.502	Data
51	69.914	6.476	57.067	49.751	44.502	Data
51	69.731	6.491	57.068	49.75	44.502	Data
52.5	68.578	6.501	57.017	49.745	44.491	Data
52.5	68.898	6.520	57.016	49.745	44.491	Data
54	69.202	6.484	57.044	49.758	44.474	Data
54	69.804	6.484	57.054	49.757	44.473	Data
55	69.202	6.484	57.044	49.758	44.474	Data
55	69.804	6.484	57.054	49.757	44.473	Data
56	69.202	6.484	57.044	49.758	44.474	Data
56	69.804	6.484	57.054	49.757	44.473	Data
57	69.202	6.484	57.044	49.758	44.474	Data
57	69.804	6.484	57.054	49.757	44.473	Data
58.5	68.578	6.501	57.017	49.745	44.491	Data
58.5	68.898	6.520	57.016	49.745	44.491	Data
60.5	69.895	6.532	57.046	49.747	44.508	Data
60.5	70.098	6.473	57.054	49.748	44.509	Data
61.75	69.895	6.532	57.046	49.747	44.508	Data
61.75	70.098	6.473	57.054	49.748	44.509	Data
63	69.895	6.532	57.046	49.747	44.508	Data
63	70.098	6.473	57.054	49.748	44.509	Data
64	69.895	6.532	57.046	49.747	44.508	Data
64	70.098	6.473	57.054	49.748	44.509	Data

Table 106: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=49.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.218	6.512	57.005	50.75	44.490	Data
8	69.380	6.499	57.008	50.75	44.491	Data
30	70.731	6.530	57.060	50.739	44.509	Data
30	70.495	6.483	57.072	50.747	44.501	Data
30	70.183	6.473	57.067	50.747	44.501	Data
30	69.869	6.490	57.050	50.756	44.474	Data
30	69.218	6.512	57.005	50.75	44.490	Data
30	69.673	6.500	57.045	50.758	44.474	Data
30	69.115	6.467	57.016	50.754	44.497	Data
30	70.198	6.496	57.049	50.739	44.509	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.380	6.499	57.008	50.75	44.491	Data
30	69.253	6.567	57.008	50.752	44.497	Data
42	69.115	6.467	57.016	50.754	44.497	Data
42	69.253	6.567	57.008	50.752	44.497	Data
43	69.115	6.467	57.016	50.754	44.497	Data
43	69.253	6.567	57.008	50.752	44.497	Data
44	69.115	6.467	57.016	50.754	44.497	Data
44	69.253	6.567	57.008	50.752	44.497	Data
45	69.115	6.467	57.016	50.754	44.497	Data
45	69.253	6.567	57.008	50.752	44.497	Data
46.5	69.218	6.512	57.005	50.75	44.490	Data
46.5	69.380	6.499	57.008	50.75	44.491	Data
48	70.495	6.483	57.072	50.747	44.501	Data
48	70.183	6.473	57.067	50.747	44.501	Data
49	70.495	6.483	57.072	50.747	44.501	Data
49	70.183	6.473	57.067	50.747	44.501	Data
50	70.495	6.483	57.072	50.747	44.501	Data
50	70.183	6.473	57.067	50.747	44.501	Data
51	70.495	6.483	57.072	50.747	44.501	Data
51	70.183	6.473	57.067	50.747	44.501	Data
52.5	69.218	6.512	57.005	50.75	44.490	Data
52.5	69.380	6.499	57.008	50.75	44.491	Data
54	69.869	6.490	57.050	50.756	44.474	Data
54	69.673	6.500	57.045	50.758	44.474	Data
55	69.869	6.490	57.050	50.756	44.474	Data
55	69.673	6.500	57.045	50.758	44.474	Data
56	69.869	6.490	57.050	50.756	44.474	Data
56	69.673	6.500	57.045	50.758	44.474	Data
57	69.869	6.490	57.050	50.756	44.474	Data
57	69.673	6.500	57.045	50.758	44.474	Data
58.5	69.218	6.512	57.005	50.75	44.490	Data
58.5	69.380	6.499	57.008	50.75	44.491	Data
60.5	70.731	6.530	57.060	50.739	44.509	Data
60.5	70.198	6.496	57.049	50.739	44.509	Data
61.75	70.731	6.530	57.060	50.739	44.509	Data
61.75	70.198	6.496	57.049	50.739	44.509	Data
63	70.731	6.530	57.060	50.739	44.509	Data
63	70.198	6.496	57.049	50.739	44.509	Data
64	70.731	6.530	57.060	50.739	44.509	Data
64	70.198	6.496	57.049	50.739	44.509	Data

Table 107: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.909	6.505	57.013	51.745	44.490	Data
8	69.406	6.468	57.006	51.745	44.491	Data
30	69.565	6.644	57.004	51.748	44.497	Data
30	69.756	6.503	57.046	51.754	44.472	Data
30	70.491	6.523	57.067	51.744	44.500	Data
30	70.600	6.452	57.054	51.743	44.509	Data
30	69.689	6.512	57.063	51.744	44.500	Data
30	69.378	6.502	57.011	51.748	44.497	Data
30	69.836	6.544	57.042	51.754	44.472	Data
30	69.406	6.468	57.006	51.745	44.491	Data
30	70.323	6.465	57.057	51.743	44.509	Data
30	69.909	6.505	57.013	51.745	44.490	Data
42	69.565	6.644	57.004	51.748	44.497	Data
42	69.378	6.502	57.011	51.748	44.497	Data
43	69.565	6.644	57.004	51.748	44.497	Data
43	69.378	6.502	57.011	51.748	44.497	Data
44	69.565	6.644	57.004	51.748	44.497	Data
44	69.378	6.502	57.011	51.748	44.497	Data
45	69.565	6.644	57.004	51.748	44.497	Data
45	69.378	6.502	57.011	51.748	44.497	Data
46.5	69.406	6.468	57.006	51.745	44.491	Data
46.5	69.909	6.505	57.013	51.745	44.490	Data
48	70.491	6.523	57.067	51.744	44.500	Data
48	69.689	6.512	57.063	51.744	44.500	Data
49	70.491	6.523	57.067	51.744	44.500	Data
49	69.689	6.512	57.063	51.744	44.500	Data
50	70.491	6.523	57.067	51.744	44.500	Data
50	69.689	6.512	57.063	51.744	44.500	Data
51	70.491	6.523	57.067	51.744	44.500	Data
51	69.689	6.512	57.063	51.744	44.500	Data
52.5	69.406	6.468	57.006	51.745	44.491	Data
52.5	69.909	6.505	57.013	51.745	44.490	Data
54	69.756	6.503	57.046	51.754	44.472	Data
54	69.836	6.544	57.042	51.754	44.472	Data
55	69.756	6.503	57.046	51.754	44.472	Data
55	69.836	6.544	57.042	51.754	44.472	Data
56	69.756	6.503	57.046	51.754	44.472	Data
56	69.836	6.544	57.042	51.754	44.472	Data
57	69.756	6.503	57.046	51.754	44.472	Data
57	69.836	6.544	57.042	51.754	44.472	Data
58.5	69.406	6.468	57.006	51.745	44.491	Data
58.5	69.909	6.505	57.013	51.745	44.490	Data
60.5	70.600	6.452	57.054	51.743	44.509	Data
60.5	70.323	6.465	57.057	51.743	44.509	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	70.600	6.452	57.054	51.743	44.509	Data
61.75	70.323	6.465	57.057	51.743	44.509	Data
63	70.600	6.452	57.054	51.743	44.509	Data
63	70.323	6.465	57.057	51.743	44.509	Data
64	70.600	6.452	57.054	51.743	44.509	Data
64	70.323	6.465	57.057	51.743	44.509	Data

Table 108: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=51.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.644	6.513	57.012	52.745	44.490	Data
8	69.615	6.498	57.014	52.745	44.490	Data
30	70.841	6.460	57.067	52.739	44.502	Data
30	67.924	6.507	57.008	52.746	44.497	Data
30	68.601	6.509	57.007	52.747	44.497	Data
30	70.706	6.517	57.070	52.741	44.502	Data
30	70.636	6.490	57.054	52.742	44.509	Data
30	70.033	6.468	57.051	52.743	44.508	Data
30	69.851	6.525	57.049	52.747	44.472	Data
30	69.644	6.513	57.012	52.745	44.490	Data
30	69.615	6.498	57.014	52.745	44.490	Data
30	69.447	6.478	57.047	52.748	44.473	Data
42	67.924	6.507	57.008	52.746	44.497	Data
42	68.601	6.509	57.007	52.747	44.497	Data
43	67.924	6.507	57.008	52.746	44.497	Data
43	68.601	6.509	57.007	52.747	44.497	Data
44	67.924	6.507	57.008	52.746	44.497	Data
44	68.601	6.509	57.007	52.747	44.497	Data
45	67.924	6.507	57.008	52.746	44.497	Data
45	68.601	6.509	57.007	52.747	44.497	Data
46.5	69.644	6.513	57.012	52.745	44.490	Data
46.5	69.615	6.498	57.014	52.745	44.490	Data
48	70.841	6.460	57.067	52.739	44.502	Data
48	70.706	6.517	57.070	52.741	44.502	Data
49	70.841	6.460	57.067	52.739	44.502	Data
49	70.706	6.517	57.070	52.741	44.502	Data
50	70.841	6.460	57.067	52.739	44.502	Data
50	70.706	6.517	57.070	52.741	44.502	Data
51	70.841	6.460	57.067	52.739	44.502	Data
51	70.706	6.517	57.070	52.741	44.502	Data
52.5	69.644	6.513	57.012	52.745	44.490	Data
52.5	69.615	6.498	57.014	52.745	44.490	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.851	6.525	57.049	52.747	44.472	Data
54	69.447	6.478	57.047	52.748	44.473	Data
55	69.851	6.525	57.049	52.747	44.472	Data
55	69.447	6.478	57.047	52.748	44.473	Data
56	69.851	6.525	57.049	52.747	44.472	Data
56	69.447	6.478	57.047	52.748	44.473	Data
57	69.851	6.525	57.049	52.747	44.472	Data
57	69.447	6.478	57.047	52.748	44.473	Data
58.5	69.644	6.513	57.012	52.745	44.490	Data
58.5	69.615	6.498	57.014	52.745	44.490	Data
60.5	70.636	6.490	57.054	52.742	44.509	Data
60.5	70.033	6.468	57.051	52.743	44.508	Data
61.75	70.636	6.490	57.054	52.742	44.509	Data
61.75	70.033	6.468	57.051	52.743	44.508	Data
63	70.636	6.490	57.054	52.742	44.509	Data
63	70.033	6.468	57.051	52.743	44.508	Data
64	70.636	6.490	57.054	52.742	44.509	Data
64	70.033	6.468	57.051	52.743	44.508	Data

Table 109: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.749	6.504	57.017	53.738	44.490	Data
8	70.299	6.522	57.014	53.738	44.490	Data
30	68.296	6.576	57.013	53.74	44.498	Data
30	69.749	6.504	57.017	53.738	44.490	Data
30	68.714	6.567	57.011	53.741	44.498	Data
30	70.328	6.507	57.039	53.745	44.473	Data
30	71.210	6.493	57.048	53.737	44.508	Data
30	70.962	6.471	57.068	53.74	44.502	Data
30	69.894	6.502	57.042	53.746	44.472	Data
30	70.299	6.522	57.014	53.738	44.490	Data
30	70.466	6.504	57.059	53.739	44.502	Data
30	70.403	6.483	57.053	53.738	44.508	Data
42	68.296	6.576	57.013	53.74	44.498	Data
42	68.714	6.567	57.011	53.741	44.498	Data
43	68.296	6.576	57.013	53.74	44.498	Data
43	68.714	6.567	57.011	53.741	44.498	Data
44	68.296	6.576	57.013	53.74	44.498	Data
44	68.714	6.567	57.011	53.741	44.498	Data
45	68.296	6.576	57.013	53.74	44.498	Data
45	68.714	6.567	57.011	53.741	44.498	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	69.749	6.504	57.017	53.738	44.490	Data
46.5	70.299	6.522	57.014	53.738	44.490	Data
48	70.466	6.504	57.059	53.739	44.502	Data
48	70.962	6.471	57.068	53.74	44.502	Data
49	70.466	6.504	57.059	53.739	44.502	Data
49	70.962	6.471	57.068	53.74	44.502	Data
50	70.466	6.504	57.059	53.739	44.502	Data
50	70.962	6.471	57.068	53.74	44.502	Data
51	70.466	6.504	57.059	53.739	44.502	Data
51	70.962	6.471	57.068	53.74	44.502	Data
52.5	69.749	6.504	57.017	53.738	44.490	Data
52.5	70.299	6.522	57.014	53.738	44.490	Data
54	70.328	6.507	57.039	53.745	44.473	Data
54	69.894	6.502	57.042	53.746	44.472	Data
55	70.328	6.507	57.039	53.745	44.473	Data
55	69.894	6.502	57.042	53.746	44.472	Data
56	70.328	6.507	57.039	53.745	44.473	Data
56	69.894	6.502	57.042	53.746	44.472	Data
57	70.328	6.507	57.039	53.745	44.473	Data
57	69.894	6.502	57.042	53.746	44.472	Data
58.5	69.749	6.504	57.017	53.738	44.490	Data
58.5	70.299	6.522	57.014	53.738	44.490	Data
60.5	70.403	6.483	57.053	53.738	44.508	Data
60.5	71.210	6.493	57.048	53.737	44.508	Data
61.75	70.403	6.483	57.053	53.738	44.508	Data
61.75	71.210	6.493	57.048	53.737	44.508	Data
63	71.210	6.493	57.048	53.737	44.508	Data
63	70.403	6.483	57.053	53.738	44.508	Data
64	71.210	6.493	57.048	53.737	44.508	Data
64	70.403	6.483	57.053	53.738	44.508	Data

Table 110: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=53.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.016	6.533	57.017	54.738	44.490	Data
8	69.573	6.515	57.016	54.738	44.490	Data
30	68.294	6.580	57.007	54.739	44.498	Data
30	70.727	6.509	57.060	54.748	44.501	Data
30	68.566	6.593	57.010	54.739	44.498	Data
30	69.573	6.515	57.016	54.738	44.490	Data
30	69.923	6.501	57.061	54.75	44.501	Data
30	70.711	6.451	57.053	54.737	44.508	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.016	6.533	57.017	54.738	44.490	Data
30	70.429	6.498	57.042	54.74	44.474	Data
30	70.075	6.547	57.041	54.742	44.474	Data
30	70.850	6.532	57.059	54.736	44.507	Data
42	68.294	6.580	57.007	54.739	44.498	Data
42	68.566	6.593	57.010	54.739	44.498	Data
43	68.294	6.580	57.007	54.739	44.498	Data
43	68.566	6.593	57.010	54.739	44.498	Data
44	68.294	6.580	57.007	54.739	44.498	Data
44	68.566	6.593	57.010	54.739	44.498	Data
45	68.294	6.580	57.007	54.739	44.498	Data
45	68.566	6.593	57.010	54.739	44.498	Data
46.5	69.573	6.515	57.016	54.738	44.490	Data
46.5	70.016	6.533	57.017	54.738	44.490	Data
48	69.923	6.501	57.061	54.75	44.501	Data
48	70.727	6.509	57.060	54.748	44.501	Data
49	69.923	6.501	57.061	54.75	44.501	Data
49	70.727	6.509	57.060	54.748	44.501	Data
50	69.923	6.501	57.061	54.75	44.501	Data
50	70.727	6.509	57.060	54.748	44.501	Data
51	69.923	6.501	57.061	54.75	44.501	Data
51	70.727	6.509	57.060	54.748	44.501	Data
52.5	69.573	6.515	57.016	54.738	44.490	Data
52.5	70.016	6.533	57.017	54.738	44.490	Data
54	70.429	6.498	57.042	54.74	44.474	Data
54	70.075	6.547	57.041	54.742	44.474	Data
55	70.429	6.498	57.042	54.74	44.474	Data
55	70.075	6.547	57.041	54.742	44.474	Data
56	70.075	6.547	57.041	54.742	44.474	Data
56	70.429	6.498	57.042	54.74	44.474	Data
57	70.075	6.547	57.041	54.742	44.474	Data
57	70.429	6.498	57.042	54.74	44.474	Data
58.5	69.573	6.515	57.016	54.738	44.490	Data
58.5	70.016	6.533	57.017	54.738	44.490	Data
60.5	70.711	6.451	57.053	54.737	44.508	Data
60.5	70.850	6.532	57.059	54.736	44.507	Data
61.75	70.711	6.451	57.053	54.737	44.508	Data
61.75	70.850	6.532	57.059	54.736	44.507	Data
63	70.711	6.451	57.053	54.737	44.508	Data
63	70.850	6.532	57.059	54.736	44.507	Data
64	70.711	6.451	57.053	54.737	44.508	Data
64	70.850	6.532	57.059	54.736	44.507	Data

Table 111: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.925	6.535	57.012	55.739	44.490	Data
8	69.833	6.478	57.014	55.739	44.490	Data
30	68.420	6.550	57.010	55.744	44.498	Data
30	68.785	6.553	57.013	55.743	44.498	Data
30	71.252	6.525	57.064	55.74	44.501	Data
30	70.823	6.485	57.054	55.733	44.507	Data
30	69.925	6.535	57.012	55.739	44.490	Data
30	69.947	6.491	57.047	55.744	44.475	Data
30	70.907	6.467	57.054	55.732	44.507	Data
30	70.484	6.478	57.060	55.741	44.500	Data
30	70.942	6.524	57.041	55.744	44.475	Data
30	69.833	6.478	57.014	55.739	44.490	Data
42	68.420	6.550	57.010	55.744	44.498	Data
42	68.785	6.553	57.013	55.743	44.498	Data
43	68.420	6.550	57.010	55.744	44.498	Data
43	68.785	6.553	57.013	55.743	44.498	Data
44	68.420	6.550	57.010	55.744	44.498	Data
44	68.785	6.553	57.013	55.743	44.498	Data
45	68.420	6.550	57.010	55.744	44.498	Data
45	68.785	6.553	57.013	55.743	44.498	Data
46.5	69.925	6.535	57.012	55.739	44.490	Data
46.5	69.833	6.478	57.014	55.739	44.490	Data
48	71.252	6.525	57.064	55.74	44.501	Data
48	70.484	6.478	57.060	55.741	44.500	Data
49	71.252	6.525	57.064	55.74	44.501	Data
49	70.484	6.478	57.060	55.741	44.500	Data
50	71.252	6.525	57.064	55.74	44.501	Data
50	70.484	6.478	57.060	55.741	44.500	Data
51	71.252	6.525	57.064	55.74	44.501	Data
51	70.484	6.478	57.060	55.741	44.500	Data
52.5	69.925	6.535	57.012	55.739	44.490	Data
52.5	69.833	6.478	57.014	55.739	44.490	Data
54	69.947	6.491	57.047	55.744	44.475	Data
54	70.942	6.524	57.041	55.744	44.475	Data
55	69.947	6.491	57.047	55.744	44.475	Data
55	70.942	6.524	57.041	55.744	44.475	Data
56	69.947	6.491	57.047	55.744	44.475	Data
56	70.942	6.524	57.041	55.744	44.475	Data
57	69.947	6.491	57.047	55.744	44.475	Data
57	70.942	6.524	57.041	55.744	44.475	Data
58.5	69.925	6.535	57.012	55.739	44.490	Data
58.5	69.833	6.478	57.014	55.739	44.490	Data
60.5	70.907	6.467	57.054	55.732	44.507	Data
60.5	70.823	6.485	57.054	55.733	44.507	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	70.907	6.467	57.054	55.732	44.507	Data
61.75	70.823	6.485	57.054	55.733	44.507	Data
63	70.907	6.467	57.054	55.732	44.507	Data
63	70.823	6.485	57.054	55.733	44.507	Data
64	70.907	6.467	57.054	55.732	44.507	Data
64	70.823	6.485	57.054	55.733	44.507	Data

Table 112: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=55.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.558	6.521	57.015	56.743	44.491	Data
8	70.198	6.511	57.014	56.743	44.490	Data
30	71.211	6.501	57.054	56.74	44.507	Data
30	70.789	6.495	57.069	56.746	44.500	Data
30	70.968	6.473	57.040	56.748	44.480	Data
30	70.842	6.529	57.058	56.746	44.500	Data
30	70.292	6.501	57.060	56.741	44.507	Data
30	70.558	6.521	57.015	56.743	44.491	Data
30	70.849	6.509	57.047	56.749	44.479	Data
30	69.176	6.538	57.010	56.754	44.498	Data
30	70.198	6.511	57.014	56.743	44.490	Data
30	68.950	6.506	57.020	56.753	44.499	Data
42	68.950	6.506	57.020	56.753	44.499	Data
42	69.176	6.538	57.010	56.754	44.498	Data
43	68.950	6.506	57.020	56.753	44.499	Data
43	69.176	6.538	57.010	56.754	44.498	Data
44	68.950	6.506	57.020	56.753	44.499	Data
44	69.176	6.538	57.010	56.754	44.498	Data
45	68.950	6.506	57.020	56.753	44.499	Data
45	69.176	6.538	57.010	56.754	44.498	Data
46.5	70.558	6.521	57.015	56.743	44.491	Data
46.5	70.198	6.511	57.014	56.743	44.490	Data
48	70.842	6.529	57.058	56.746	44.500	Data
48	70.789	6.495	57.069	56.746	44.500	Data
49	70.842	6.529	57.058	56.746	44.500	Data
49	70.789	6.495	57.069	56.746	44.500	Data
50	70.842	6.529	57.058	56.746	44.500	Data
50	70.789	6.495	57.069	56.746	44.500	Data
51	70.842	6.529	57.058	56.746	44.500	Data
51	70.789	6.495	57.069	56.746	44.500	Data
52.5	70.558	6.521	57.015	56.743	44.491	Data
52.5	70.198	6.511	57.014	56.743	44.490	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	70.849	6.509	57.047	56.749	44.479	Data
54	70.968	6.473	57.040	56.748	44.480	Data
55	70.849	6.509	57.047	56.749	44.479	Data
55	70.968	6.473	57.040	56.748	44.480	Data
56	70.849	6.509	57.047	56.749	44.479	Data
56	70.968	6.473	57.040	56.748	44.480	Data
57	70.849	6.509	57.047	56.749	44.479	Data
57	70.968	6.473	57.040	56.748	44.480	Data
58.5	70.558	6.521	57.015	56.743	44.491	Data
58.5	70.198	6.511	57.014	56.743	44.490	Data
60.5	70.292	6.501	57.060	56.741	44.507	Data
60.5	71.211	6.501	57.054	56.74	44.507	Data
61.75	70.292	6.501	57.060	56.741	44.507	Data
61.75	71.211	6.501	57.054	56.74	44.507	Data
63	70.292	6.501	57.060	56.741	44.507	Data
63	71.211	6.501	57.054	56.74	44.507	Data
64	70.292	6.501	57.060	56.741	44.507	Data
64	71.211	6.501	57.054	56.74	44.507	Data

Table 113: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.687	6.463	57.015	57.755	44.491	Data
8	70.721	6.527	57.009	57.756	44.491	Data
30	71.614	6.488	57.062	57.754	44.499	Data
30	70.704	6.478	57.047	57.744	44.482	Data
30	71.059	6.491	57.048	57.744	44.483	Data
30	71.531	6.481	57.075	57.753	44.499	Data
30	70.790	6.527	57.052	57.757	44.507	Data
30	71.402	6.548	57.053	57.756	44.507	Data
30	70.721	6.527	57.009	57.756	44.491	Data
30	69.756	6.541	57.017	57.74	44.499	Data
30	70.687	6.463	57.015	57.755	44.491	Data
30	69.153	6.563	57.010	57.741	44.499	Data
42	69.153	6.563	57.010	57.741	44.499	Data
42	69.756	6.541	57.017	57.74	44.499	Data
43	69.153	6.563	57.010	57.741	44.499	Data
43	69.756	6.541	57.017	57.74	44.499	Data
44	69.153	6.563	57.010	57.741	44.499	Data
44	69.756	6.541	57.017	57.74	44.499	Data
45	69.153	6.563	57.010	57.741	44.499	Data
45	69.756	6.541	57.017	57.74	44.499	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.721	6.527	57.009	57.756	44.491	Data
46.5	70.687	6.463	57.015	57.755	44.491	Data
48	71.614	6.488	57.062	57.754	44.499	Data
48	71.531	6.481	57.075	57.753	44.499	Data
49	71.614	6.488	57.062	57.754	44.499	Data
49	71.531	6.481	57.075	57.753	44.499	Data
50	71.614	6.488	57.062	57.754	44.499	Data
50	71.531	6.481	57.075	57.753	44.499	Data
51	71.614	6.488	57.062	57.754	44.499	Data
51	71.531	6.481	57.075	57.753	44.499	Data
52.5	70.721	6.527	57.009	57.756	44.491	Data
52.5	70.687	6.463	57.015	57.755	44.491	Data
54	71.059	6.491	57.048	57.744	44.483	Data
54	70.704	6.478	57.047	57.744	44.482	Data
55	71.059	6.491	57.048	57.744	44.483	Data
55	70.704	6.478	57.047	57.744	44.482	Data
56	71.059	6.491	57.048	57.744	44.483	Data
56	70.704	6.478	57.047	57.744	44.482	Data
57	71.059	6.491	57.048	57.744	44.483	Data
57	70.704	6.478	57.047	57.744	44.482	Data
58.5	70.721	6.527	57.009	57.756	44.491	Data
58.5	70.687	6.463	57.015	57.755	44.491	Data
60.5	70.790	6.527	57.052	57.757	44.507	Data
60.5	71.402	6.548	57.053	57.756	44.507	Data
61.75	70.790	6.527	57.052	57.757	44.507	Data
61.75	71.402	6.548	57.053	57.756	44.507	Data
63	70.790	6.527	57.052	57.757	44.507	Data
63	71.402	6.548	57.053	57.756	44.507	Data
64	70.790	6.527	57.052	57.757	44.507	Data
64	71.402	6.548	57.053	57.756	44.507	Data

Table 114: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=57.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.468	6.493	57.015	58.755	44.491	Data
8	70.461	6.485	57.013	58.755	44.491	Data
30	70.468	6.493	57.015	58.755	44.491	Data
30	69.420	6.530	57.013	58.759	44.500	Data
30	71.012	6.469	57.068	58.757	44.498	Data
30	70.104	6.550	57.011	58.761	44.500	Data
30	71.618	6.479	57.070	58.755	44.497	Data
30	70.611	6.504	57.046	58.745	44.486	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.226	6.511	57.043	58.744	44.488	Data
30	71.672	6.526	57.052	58.755	44.506	Data
30	71.134	6.496	57.057	58.756	44.506	Data
30	70.461	6.485	57.013	58.755	44.491	Data
42	69.420	6.530	57.013	58.759	44.500	Data
42	70.104	6.550	57.011	58.761	44.500	Data
43	69.420	6.530	57.013	58.759	44.500	Data
43	70.104	6.550	57.011	58.761	44.500	Data
44	69.420	6.530	57.013	58.759	44.500	Data
44	70.104	6.550	57.011	58.761	44.500	Data
45	69.420	6.530	57.013	58.759	44.500	Data
45	70.104	6.550	57.011	58.761	44.500	Data
46.5	70.468	6.493	57.015	58.755	44.491	Data
46.5	70.461	6.485	57.013	58.755	44.491	Data
48	71.012	6.469	57.068	58.757	44.498	Data
48	71.618	6.479	57.070	58.755	44.497	Data
49	71.012	6.469	57.068	58.757	44.498	Data
49	71.618	6.479	57.070	58.755	44.497	Data
50	71.012	6.469	57.068	58.757	44.498	Data
50	71.618	6.479	57.070	58.755	44.497	Data
51	71.012	6.469	57.068	58.757	44.498	Data
51	71.618	6.479	57.070	58.755	44.497	Data
52.5	70.468	6.493	57.015	58.755	44.491	Data
52.5	70.461	6.485	57.013	58.755	44.491	Data
54	70.611	6.504	57.046	58.745	44.486	Data
54	71.226	6.511	57.043	58.744	44.488	Data
55	70.611	6.504	57.046	58.745	44.486	Data
55	71.226	6.511	57.043	58.744	44.488	Data
56	70.611	6.504	57.046	58.745	44.486	Data
56	71.226	6.511	57.043	58.744	44.488	Data
57	70.611	6.504	57.046	58.745	44.486	Data
57	71.226	6.511	57.043	58.744	44.488	Data
58.5	70.468	6.493	57.015	58.755	44.491	Data
58.5	70.461	6.485	57.013	58.755	44.491	Data
60.5	71.672	6.526	57.052	58.755	44.506	Data
60.5	71.134	6.496	57.057	58.756	44.506	Data
61.75	71.672	6.526	57.052	58.755	44.506	Data
61.75	71.134	6.496	57.057	58.756	44.506	Data
63	71.672	6.526	57.052	58.755	44.506	Data
63	71.134	6.496	57.057	58.756	44.506	Data
64	71.672	6.526	57.052	58.755	44.506	Data
64	71.134	6.496	57.057	58.756	44.506	Data

Table 115: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.158	6.481	57.016	59.757	44.491	Data
8	70.788	6.484	57.016	59.758	44.492	Data
30	70.282	6.600	57.010	59.753	44.501	Data
30	71.158	6.481	57.016	59.757	44.491	Data
30	71.610	6.500	57.053	59.751	44.505	Data
30	72.116	6.480	57.067	59.752	44.498	Data
30	71.429	6.482	57.051	59.754	44.505	Data
30	70.788	6.484	57.016	59.758	44.492	Data
30	70.986	6.532	57.067	59.752	44.498	Data
30	70.840	6.521	57.046	59.741	44.496	Data
30	70.652	6.507	57.047	59.741	44.494	Data
30	69.423	6.519	57.009	59.755	44.501	Data
42	70.282	6.600	57.010	59.753	44.501	Data
42	69.423	6.519	57.009	59.755	44.501	Data
43	70.282	6.600	57.010	59.753	44.501	Data
43	69.423	6.519	57.009	59.755	44.501	Data
44	70.282	6.600	57.010	59.753	44.501	Data
44	69.423	6.519	57.009	59.755	44.501	Data
45	70.282	6.600	57.010	59.753	44.501	Data
45	69.423	6.519	57.009	59.755	44.501	Data
46.5	71.158	6.481	57.016	59.757	44.491	Data
46.5	70.788	6.484	57.016	59.758	44.492	Data
48	72.116	6.480	57.067	59.752	44.498	Data
48	70.986	6.532	57.067	59.752	44.498	Data
49	70.986	6.532	57.067	59.752	44.498	Data
49	72.116	6.480	57.067	59.752	44.498	Data
50	70.986	6.532	57.067	59.752	44.498	Data
50	72.116	6.480	57.067	59.752	44.498	Data
51	70.986	6.532	57.067	59.752	44.498	Data
51	72.116	6.480	57.067	59.752	44.498	Data
52.5	71.158	6.481	57.016	59.757	44.491	Data
52.5	70.788	6.484	57.016	59.758	44.492	Data
54	70.652	6.507	57.047	59.741	44.494	Data
54	70.840	6.521	57.046	59.741	44.496	Data
55	70.652	6.507	57.047	59.741	44.494	Data
55	70.840	6.521	57.046	59.741	44.496	Data
56	70.652	6.507	57.047	59.741	44.494	Data
56	70.840	6.521	57.046	59.741	44.496	Data
57	70.652	6.507	57.047	59.741	44.494	Data
57	70.840	6.521	57.046	59.741	44.496	Data
58.5	71.158	6.481	57.016	59.757	44.491	Data
58.5	70.788	6.484	57.016	59.758	44.492	Data
60.5	71.610	6.500	57.053	59.751	44.505	Data
60.5	71.429	6.482	57.051	59.754	44.505	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	71.610	6.500	57.053	59.751	44.505	Data
61.75	71.429	6.482	57.051	59.754	44.505	Data
63	71.610	6.500	57.053	59.751	44.505	Data
63	71.429	6.482	57.051	59.754	44.505	Data
64	71.610	6.500	57.053	59.751	44.505	Data
64	71.429	6.482	57.051	59.754	44.505	Data

Table 116: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=59.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.750	6.500	57.014	60.759	44.492	Data
8	71.389	6.455	57.013	60.761	44.492	Data
30	71.389	6.455	57.013	60.761	44.492	Data
30	71.817	6.524	57.045	60.75	44.502	Data
30	71.803	6.502	57.058	60.757	44.504	Data
30	69.854	6.540	57.008	60.764	44.500	Data
30	71.560	6.463	57.045	60.75	44.506	Data
30	71.801	6.470	57.067	60.757	44.497	Data
30	71.720	6.512	57.056	60.758	44.505	Data
30	70.750	6.500	57.014	60.759	44.492	Data
30	71.258	6.506	57.074	60.757	44.497	Data
30	69.471	6.521	57.012	60.763	44.501	Data
42	69.854	6.540	57.008	60.764	44.500	Data
42	69.471	6.521	57.012	60.763	44.501	Data
43	69.854	6.540	57.008	60.764	44.500	Data
43	69.471	6.521	57.012	60.763	44.501	Data
44	69.854	6.540	57.008	60.764	44.500	Data
44	69.471	6.521	57.012	60.763	44.501	Data
45	69.854	6.540	57.008	60.764	44.500	Data
45	69.471	6.521	57.012	60.763	44.501	Data
46.5	71.389	6.455	57.013	60.761	44.492	Data
46.5	70.750	6.500	57.014	60.759	44.492	Data
48	71.801	6.470	57.067	60.757	44.497	Data
48	71.258	6.506	57.074	60.757	44.497	Data
49	71.801	6.470	57.067	60.757	44.497	Data
49	71.258	6.506	57.074	60.757	44.497	Data
50	71.801	6.470	57.067	60.757	44.497	Data
50	71.258	6.506	57.074	60.757	44.497	Data
51	71.801	6.470	57.067	60.757	44.497	Data
51	71.258	6.506	57.074	60.757	44.497	Data
52.5	71.389	6.455	57.013	60.761	44.492	Data
52.5	70.750	6.500	57.014	60.759	44.492	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	71.817	6.524	57.045	60.75	44.502	Data
54	71.560	6.463	57.045	60.75	44.506	Data
55	71.817	6.524	57.045	60.75	44.502	Data
55	71.560	6.463	57.045	60.75	44.506	Data
56	71.817	6.524	57.045	60.75	44.502	Data
56	71.560	6.463	57.045	60.75	44.506	Data
57	71.817	6.524	57.045	60.75	44.502	Data
57	71.560	6.463	57.045	60.75	44.506	Data
58.5	71.389	6.455	57.013	60.761	44.492	Data
58.5	70.750	6.500	57.014	60.759	44.492	Data
60.5	71.803	6.502	57.058	60.757	44.504	Data
60.5	71.720	6.512	57.056	60.758	44.505	Data
61.75	71.803	6.502	57.058	60.757	44.504	Data
61.75	71.720	6.512	57.056	60.758	44.505	Data
63	71.803	6.502	57.058	60.757	44.504	Data
63	71.720	6.512	57.056	60.758	44.505	Data
64	71.803	6.502	57.058	60.757	44.504	Data
64	71.720	6.512	57.056	60.758	44.505	Data

Table 117: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 — VG at span y=60.5 (in)

D.10. Horizontal VG vortex sweep at height z=42.5, q=70, α_{VG}=8, α_W=7, RO-tip

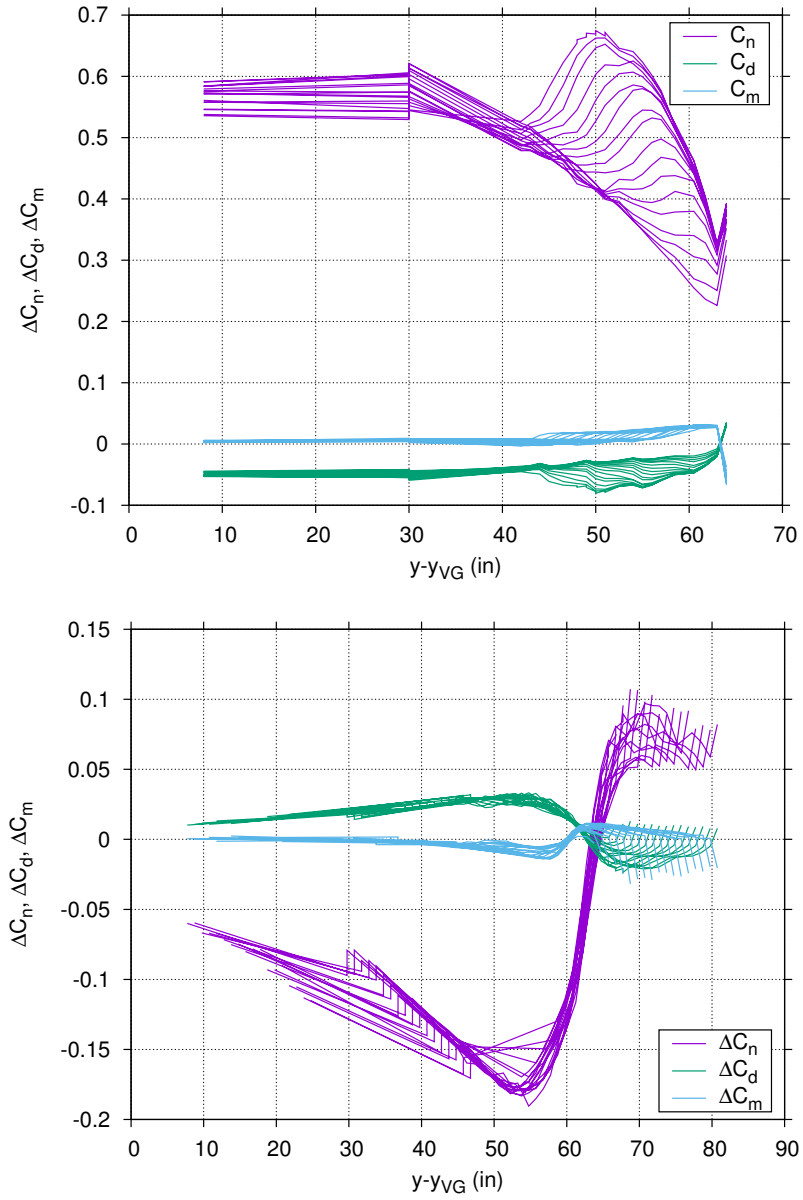

Figure 63. VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — (Data)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.699	6.485	57.010	43.746	42.490	Data
8	69.678	6.463	57.019	43.744	42.490	Data
30	68.738	6.553	57.026	43.758	42.495	Data
30	70.061	6.507	57.077	43.756	42.482	Data
30	69.875	6.482	57.050	43.756	42.504	Data
30	69.036	6.466	57.063	43.755	42.482	Data
30	69.076	6.474	57.063	43.751	42.500	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.432	6.520	57.041	43.757	42.443	Data
30	68.784	6.531	57.029	43.756	42.496	Data
30	68.855	6.480	57.061	43.75	42.501	Data
30	69.678	6.463	57.019	43.744	42.490	Data
30	69.699	6.485	57.010	43.746	42.490	Data
30	69.152	6.490	57.045	43.758	42.504	Data
30	68.839	6.484	57.038	43.757	42.444	Data
42	68.738	6.553	57.026	43.758	42.495	Data
42	68.784	6.531	57.029	43.756	42.496	Data
43	68.738	6.553	57.026	43.758	42.495	Data
43	68.784	6.531	57.029	43.756	42.496	Data
44	68.738	6.553	57.026	43.758	42.495	Data
44	68.784	6.531	57.029	43.756	42.496	Data
45	68.738	6.553	57.026	43.758	42.495	Data
45	68.784	6.531	57.029	43.756	42.496	Data
46.5	69.678	6.463	57.019	43.744	42.490	Data
46.5	69.699	6.485	57.010	43.746	42.490	Data
48	70.061	6.507	57.077	43.756	42.482	Data
48	68.839	6.484	57.038	43.757	42.444	Data
48	68.432	6.520	57.041	43.757	42.443	Data
48	69.036	6.466	57.063	43.755	42.482	Data
49	70.061	6.507	57.077	43.756	42.482	Data
49	68.839	6.484	57.038	43.757	42.444	Data
49	68.432	6.520	57.041	43.757	42.443	Data
49	69.036	6.466	57.063	43.755	42.482	Data
50	70.061	6.507	57.077	43.756	42.482	Data
50	68.839	6.484	57.038	43.757	42.444	Data
50	68.432	6.520	57.041	43.757	42.443	Data
50	69.036	6.466	57.063	43.755	42.482	Data
51	70.061	6.507	57.077	43.756	42.482	Data
51	68.839	6.484	57.038	43.757	42.444	Data
51	68.432	6.520	57.041	43.757	42.443	Data
51	69.036	6.466	57.063	43.755	42.482	Data
52.5	69.678	6.463	57.019	43.744	42.490	Data
52.5	69.699	6.485	57.010	43.746	42.490	Data
54	69.875	6.482	57.050	43.756	42.504	Data
54	69.152	6.490	57.045	43.758	42.504	Data
55	69.875	6.482	57.050	43.756	42.504	Data
55	69.152	6.490	57.045	43.758	42.504	Data
56	69.875	6.482	57.050	43.756	42.504	Data
56	69.152	6.490	57.045	43.758	42.504	Data
57	69.875	6.482	57.050	43.756	42.504	Data
57	69.152	6.490	57.045	43.758	42.504	Data
58.5	69.699	6.485	57.010	43.746	42.490	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
58.5	69.678	6.463	57.019	43.744	42.490	Data
60.5	68.855	6.480	57.061	43.75	42.501	Data
60.5	69.076	6.474	57.063	43.751	42.500	Data
61.75	68.855	6.480	57.061	43.75	42.501	Data
61.75	69.076	6.474	57.063	43.751	42.500	Data
63	68.855	6.480	57.061	43.75	42.501	Data
63	69.076	6.474	57.063	43.751	42.500	Data
64	68.855	6.480	57.061	43.75	42.501	Data
64	69.076	6.474	57.063	43.751	42.500	Data

Table 118: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.126	6.506	57.019	44.735	42.490	Data
8	69.719	6.471	57.023	44.735	42.489	Data
30	69.528	6.516	57.050	44.737	42.502	Data
30	69.031	6.457	57.048	44.74	42.502	Data
30	68.687	6.500	57.041	44.745	42.443	Data
30	67.989	6.506	57.058	44.737	42.502	Data
30	69.000	6.556	57.022	44.74	42.491	Data
30	69.782	6.492	57.046	44.74	42.503	Data
30	69.126	6.506	57.019	44.735	42.490	Data
30	69.719	6.471	57.023	44.735	42.489	Data
30	69.320	6.560	57.017	44.74	42.492	Data
30	68.219	6.559	57.040	44.745	42.444	Data
42	69.000	6.556	57.022	44.74	42.491	Data
42	69.320	6.560	57.017	44.74	42.492	Data
43	69.000	6.556	57.022	44.74	42.491	Data
43	69.320	6.560	57.017	44.74	42.492	Data
44	69.000	6.556	57.022	44.74	42.491	Data
44	69.320	6.560	57.017	44.74	42.492	Data
45	69.000	6.556	57.022	44.74	42.491	Data
45	69.320	6.560	57.017	44.74	42.492	Data
46.5	69.719	6.471	57.023	44.735	42.489	Data
46.5	69.126	6.506	57.019	44.735	42.490	Data
48	68.687	6.500	57.041	44.745	42.443	Data
48	68.219	6.559	57.040	44.745	42.444	Data
49	68.687	6.500	57.041	44.745	42.443	Data
49	68.219	6.559	57.040	44.745	42.444	Data
50	68.687	6.500	57.041	44.745	42.443	Data
50	68.219	6.559	57.040	44.745	42.444	Data
51	68.687	6.500	57.041	44.745	42.443	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	68.219	6.559	57.040	44.745	42.444	Data
52.5	69.719	6.471	57.023	44.735	42.489	Data
52.5	69.126	6.506	57.019	44.735	42.490	Data
54	69.782	6.492	57.046	44.74	42.503	Data
54	69.031	6.457	57.048	44.74	42.502	Data
55	69.782	6.492	57.046	44.74	42.503	Data
55	69.031	6.457	57.048	44.74	42.502	Data
56	69.782	6.492	57.046	44.74	42.503	Data
56	69.031	6.457	57.048	44.74	42.502	Data
57	69.782	6.492	57.046	44.74	42.503	Data
57	69.031	6.457	57.048	44.74	42.502	Data
58.5	69.126	6.506	57.019	44.735	42.490	Data
58.5	69.719	6.471	57.023	44.735	42.489	Data
60.5	69.528	6.516	57.050	44.737	42.502	Data
60.5	67.989	6.506	57.058	44.737	42.502	Data
61.75	69.528	6.516	57.050	44.737	42.502	Data
61.75	67.989	6.506	57.058	44.737	42.502	Data
63	69.528	6.516	57.050	44.737	42.502	Data
63	67.989	6.506	57.058	44.737	42.502	Data
64	69.528	6.516	57.050	44.737	42.502	Data
64	67.989	6.506	57.058	44.737	42.502	Data

Table 119: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.159	6.519	57.020	45.736	42.490	Data
8	69.696	6.515	57.027	45.735	42.489	Data
30	68.267	6.521	57.058	45.753	42.500	Data
30	68.530	6.517	57.061	45.751	42.501	Data
30	69.299	6.471	57.051	45.749	42.503	Data
30	69.818	6.448	57.046	45.747	42.502	Data
30	69.292	6.572	57.015	45.736	42.491	Data
30	70.159	6.519	57.020	45.736	42.490	Data
30	69.696	6.515	57.027	45.735	42.489	Data
30	68.542	6.508	57.026	45.738	42.491	Data
30	68.640	6.533	57.039	45.741	42.443	Data
30	68.189	6.504	57.035	45.743	42.442	Data
42	69.292	6.572	57.015	45.736	42.491	Data
42	68.542	6.508	57.026	45.738	42.491	Data
43	69.292	6.572	57.015	45.736	42.491	Data
43	68.542	6.508	57.026	45.738	42.491	Data
44	69.292	6.572	57.015	45.736	42.491	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	68.542	6.508	57.026	45.738	42.491	Data
45	69.292	6.572	57.015	45.736	42.491	Data
45	68.542	6.508	57.026	45.738	42.491	Data
46.5	70.159	6.519	57.020	45.736	42.490	Data
46.5	69.696	6.515	57.027	45.735	42.489	Data
48	68.189	6.504	57.035	45.743	42.442	Data
48	68.640	6.533	57.039	45.741	42.443	Data
49	68.189	6.504	57.035	45.743	42.442	Data
49	68.640	6.533	57.039	45.741	42.443	Data
50	68.189	6.504	57.035	45.743	42.442	Data
50	68.640	6.533	57.039	45.741	42.443	Data
51	68.189	6.504	57.035	45.743	42.442	Data
51	68.640	6.533	57.039	45.741	42.443	Data
52.5	69.696	6.515	57.027	45.735	42.489	Data
52.5	70.159	6.519	57.020	45.736	42.490	Data
54	69.818	6.448	57.046	45.747	42.502	Data
54	69.299	6.471	57.051	45.749	42.503	Data
55	69.818	6.448	57.046	45.747	42.502	Data
55	69.299	6.471	57.051	45.749	42.503	Data
56	69.818	6.448	57.046	45.747	42.502	Data
56	69.299	6.471	57.051	45.749	42.503	Data
57	69.818	6.448	57.046	45.747	42.502	Data
57	69.299	6.471	57.051	45.749	42.503	Data
58.5	69.696	6.515	57.027	45.735	42.489	Data
58.5	70.159	6.519	57.020	45.736	42.490	Data
60.5	68.530	6.517	57.061	45.751	42.501	Data
60.5	68.267	6.521	57.058	45.753	42.500	Data
61.75	68.530	6.517	57.061	45.751	42.501	Data
61.75	68.267	6.521	57.058	45.753	42.500	Data
63	68.530	6.517	57.061	45.751	42.501	Data
63	68.267	6.521	57.058	45.753	42.500	Data
64	68.267	6.521	57.058	45.753	42.500	Data
64	68.530	6.517	57.061	45.751	42.501	Data

Table 120: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=45.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.134	6.491	57.026	46.732	42.489	Data
8	70.126	6.471	57.024	46.732	42.490	Data
30	68.958	6.546	57.043	46.739	42.443	Data
30	68.167	6.561	57.034	46.739	42.443	Data
30	70.134	6.491	57.026	46.732	42.489	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.559	6.522	57.041	46.751	42.503	Data
30	69.138	6.544	57.013	46.743	42.492	Data
30	69.142	6.549	57.020	46.742	42.490	Data
30	68.402	6.463	57.055	46.747	42.502	Data
30	67.901	6.492	57.056	46.745	42.501	Data
30	70.126	6.471	57.024	46.732	42.490	Data
30	69.895	6.460	57.042	46.752	42.503	Data
42	69.138	6.544	57.013	46.743	42.492	Data
42	69.142	6.549	57.020	46.742	42.490	Data
43	69.138	6.544	57.013	46.743	42.492	Data
43	69.142	6.549	57.020	46.742	42.490	Data
44	69.138	6.544	57.013	46.743	42.492	Data
44	69.142	6.549	57.020	46.742	42.490	Data
45	69.138	6.544	57.013	46.743	42.492	Data
45	69.142	6.549	57.020	46.742	42.490	Data
46.5	70.134	6.491	57.026	46.732	42.489	Data
46.5	70.126	6.471	57.024	46.732	42.490	Data
48	68.958	6.546	57.043	46.739	42.443	Data
48	68.167	6.561	57.034	46.739	42.443	Data
49	68.958	6.546	57.043	46.739	42.443	Data
49	68.167	6.561	57.034	46.739	42.443	Data
50	68.958	6.546	57.043	46.739	42.443	Data
50	68.167	6.561	57.034	46.739	42.443	Data
51	68.958	6.546	57.043	46.739	42.443	Data
51	68.167	6.561	57.034	46.739	42.443	Data
52.5	70.134	6.491	57.026	46.732	42.489	Data
52.5	70.126	6.471	57.024	46.732	42.490	Data
54	69.559	6.522	57.041	46.751	42.503	Data
54	69.895	6.460	57.042	46.752	42.503	Data
55	69.559	6.522	57.041	46.751	42.503	Data
55	69.895	6.460	57.042	46.752	42.503	Data
56	69.559	6.522	57.041	46.751	42.503	Data
56	69.895	6.460	57.042	46.752	42.503	Data
57	69.559	6.522	57.041	46.751	42.503	Data
57	69.895	6.460	57.042	46.752	42.503	Data
58.5	70.134	6.491	57.026	46.732	42.489	Data
58.5	70.126	6.471	57.024	46.732	42.490	Data
60.5	68.402	6.463	57.055	46.747	42.502	Data
60.5	67.901	6.492	57.056	46.745	42.501	Data
61.75	68.402	6.463	57.055	46.747	42.502	Data
61.75	67.901	6.492	57.056	46.745	42.501	Data
63	68.402	6.463	57.055	46.747	42.502	Data
63	67.901	6.492	57.056	46.745	42.501	Data
64	68.402	6.463	57.055	46.747	42.502	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	67.901	6.492	57.056	46.745	42.501	Data

Table 121: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.210	6.474	57.023	47.737	42.489	Data
8	70.192	6.484	57.027	47.736	42.490	Data
30	69.004	6.508	57.043	47.749	42.443	Data
30	69.143	6.592	57.017	47.741	42.489	Data
30	68.701	6.504	57.056	47.737	42.502	Data
30	69.695	6.467	57.043	47.759	42.502	Data
30	69.387	6.501	57.046	47.759	42.503	Data
30	69.495	6.537	57.025	47.741	42.490	Data
30	69.254	6.526	57.050	47.735	42.502	Data
30	68.912	6.522	57.043	47.748	42.443	Data
30	70.192	6.484	57.027	47.736	42.490	Data
30	70.210	6.474	57.023	47.737	42.489	Data
42	69.143	6.592	57.017	47.741	42.489	Data
42	69.495	6.537	57.025	47.741	42.490	Data
43	69.143	6.592	57.017	47.741	42.489	Data
43	69.495	6.537	57.025	47.741	42.490	Data
44	69.143	6.592	57.017	47.741	42.489	Data
44	69.495	6.537	57.025	47.741	42.490	Data
45	69.143	6.592	57.017	47.741	42.489	Data
45	69.495	6.537	57.025	47.741	42.490	Data
46.5	70.192	6.484	57.027	47.736	42.490	Data
46.5	70.210	6.474	57.023	47.737	42.489	Data
48	68.912	6.522	57.043	47.748	42.443	Data
48	69.004	6.508	57.043	47.749	42.443	Data
49	68.912	6.522	57.043	47.748	42.443	Data
49	69.004	6.508	57.043	47.749	42.443	Data
50	68.912	6.522	57.043	47.748	42.443	Data
50	69.004	6.508	57.043	47.749	42.443	Data
51	68.912	6.522	57.043	47.748	42.443	Data
51	69.004	6.508	57.043	47.749	42.443	Data
52.5	70.192	6.484	57.027	47.736	42.490	Data
52.5	70.210	6.474	57.023	47.737	42.489	Data
54	69.695	6.467	57.043	47.759	42.502	Data
54	69.387	6.501	57.046	47.759	42.503	Data
55	69.695	6.467	57.043	47.759	42.502	Data
55	69.387	6.501	57.046	47.759	42.503	Data
56	69.387	6.501	57.046	47.759	42.503	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	69.695	6.467	57.043	47.759	42.502	Data
57	69.387	6.501	57.046	47.759	42.503	Data
57	69.695	6.467	57.043	47.759	42.502	Data
58.5	70.192	6.484	57.027	47.736	42.490	Data
58.5	70.210	6.474	57.023	47.737	42.489	Data
60.5	68.701	6.504	57.056	47.737	42.502	Data
60.5	69.254	6.526	57.050	47.735	42.502	Data
61.75	68.701	6.504	57.056	47.737	42.502	Data
61.75	69.254	6.526	57.050	47.735	42.502	Data
63	68.701	6.504	57.056	47.737	42.502	Data
63	69.254	6.526	57.050	47.735	42.502	Data
64	69.254	6.526	57.050	47.735	42.502	Data
64	68.701	6.504	57.056	47.737	42.502	Data

Table 122: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=47.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.280	6.505	57.018	48.742	42.489	Data
8	70.184	6.445	57.030	48.742	42.490	Data
30	69.513	6.488	57.049	48.745	42.501	Data
30	69.978	6.522	57.013	48.75	42.488	Data
30	68.484	6.507	57.038	48.755	42.442	Data
30	69.483	6.531	57.023	48.75	42.487	Data
30	69.572	6.494	57.048	48.745	42.502	Data
30	69.943	6.496	57.041	48.741	42.501	Data
30	70.184	6.445	57.030	48.742	42.490	Data
30	68.847	6.545	57.036	48.756	42.442	Data
30	70.280	6.505	57.018	48.742	42.489	Data
30	70.961	6.452	57.044	48.742	42.500	Data
42	69.978	6.522	57.013	48.75	42.488	Data
42	69.483	6.531	57.023	48.75	42.487	Data
43	69.978	6.522	57.013	48.75	42.488	Data
43	69.483	6.531	57.023	48.75	42.487	Data
44	69.978	6.522	57.013	48.75	42.488	Data
44	69.483	6.531	57.023	48.75	42.487	Data
45	69.978	6.522	57.013	48.75	42.488	Data
45	69.483	6.531	57.023	48.75	42.487	Data
46.5	70.184	6.445	57.030	48.742	42.490	Data
46.5	70.280	6.505	57.018	48.742	42.489	Data
48	68.847	6.545	57.036	48.756	42.442	Data
48	68.484	6.507	57.038	48.755	42.442	Data
49	68.847	6.545	57.036	48.756	42.442	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
49	68.484	6.507	57.038	48.755	42.442	Data
50	68.847	6.545	57.036	48.756	42.442	Data
50	68.484	6.507	57.038	48.755	42.442	Data
51	68.847	6.545	57.036	48.756	42.442	Data
51	68.484	6.507	57.038	48.755	42.442	Data
52.5	70.184	6.445	57.030	48.742	42.490	Data
52.5	70.280	6.505	57.018	48.742	42.489	Data
54	69.943	6.496	57.041	48.741	42.501	Data
54	70.961	6.452	57.044	48.742	42.500	Data
55	69.943	6.496	57.041	48.741	42.501	Data
55	70.961	6.452	57.044	48.742	42.500	Data
56	69.943	6.496	57.041	48.741	42.501	Data
56	70.961	6.452	57.044	48.742	42.500	Data
57	69.943	6.496	57.041	48.741	42.501	Data
57	70.961	6.452	57.044	48.742	42.500	Data
58.5	70.184	6.445	57.030	48.742	42.490	Data
58.5	70.280	6.505	57.018	48.742	42.489	Data
60.5	69.513	6.488	57.049	48.745	42.501	Data
60.5	69.572	6.494	57.048	48.745	42.502	Data
61.75	69.513	6.488	57.049	48.745	42.501	Data
61.75	69.572	6.494	57.048	48.745	42.502	Data
63	69.513	6.488	57.049	48.745	42.501	Data
63	69.572	6.494	57.048	48.745	42.502	Data
64	69.513	6.488	57.049	48.745	42.501	Data
64	69.572	6.494	57.048	48.745	42.502	Data

Table 123: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.578	6.509	57.034	49.745	42.489	Data
8	70.482	6.480	57.022	49.745	42.490	Data
30	69.626	6.546	57.018	49.753	42.487	Data
30	68.407	6.498	57.041	49.748	42.505	Data
30	69.360	6.540	57.049	49.748	42.505	Data
30	69.037	6.519	57.038	49.755	42.442	Data
30	70.949	6.488	57.048	49.755	42.498	Data
30	69.428	6.476	57.048	49.756	42.500	Data
30	69.892	6.569	57.025	49.754	42.488	Data
30	70.482	6.480	57.022	49.745	42.490	Data
30	70.578	6.509	57.034	49.745	42.489	Data
30	69.211	6.542	57.039	49.756	42.440	Data
42	69.626	6.546	57.018	49.753	42.487	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
42	69.892	6.569	57.025	49.754	42.488	Data
43	69.626	6.546	57.018	49.753	42.487	Data
43	69.892	6.569	57.025	49.754	42.488	Data
44	69.626	6.546	57.018	49.753	42.487	Data
44	69.892	6.569	57.025	49.754	42.488	Data
45	69.626	6.546	57.018	49.753	42.487	Data
45	69.892	6.569	57.025	49.754	42.488	Data
46.5	70.578	6.509	57.034	49.745	42.489	Data
46.5	70.482	6.480	57.022	49.745	42.490	Data
48	69.037	6.519	57.038	49.755	42.442	Data
48	69.211	6.542	57.039	49.756	42.440	Data
49	69.037	6.519	57.038	49.755	42.442	Data
49	69.211	6.542	57.039	49.756	42.440	Data
50	69.037	6.519	57.038	49.755	42.442	Data
50	69.211	6.542	57.039	49.756	42.440	Data
51	69.037	6.519	57.038	49.755	42.442	Data
51	69.211	6.542	57.039	49.756	42.440	Data
52.5	70.578	6.509	57.034	49.745	42.489	Data
52.5	70.482	6.480	57.022	49.745	42.490	Data
54	70.949	6.488	57.048	49.755	42.498	Data
54	69.428	6.476	57.048	49.756	42.500	Data
55	70.949	6.488	57.048	49.755	42.498	Data
55	69.428	6.476	57.048	49.756	42.500	Data
56	70.949	6.488	57.048	49.755	42.498	Data
56	69.428	6.476	57.048	49.756	42.500	Data
57	69.428	6.476	57.048	49.756	42.500	Data
57	70.949	6.488	57.048	49.755	42.498	Data
58.5	70.578	6.509	57.034	49.745	42.489	Data
58.5	70.482	6.480	57.022	49.745	42.490	Data
60.5	68.407	6.498	57.041	49.748	42.505	Data
60.5	69.360	6.540	57.049	49.748	42.505	Data
61.75	68.407	6.498	57.041	49.748	42.505	Data
61.75	69.360	6.540	57.049	49.748	42.505	Data
63	68.407	6.498	57.041	49.748	42.505	Data
63	69.360	6.540	57.049	49.748	42.505	Data
64	68.407	6.498	57.041	49.748	42.505	Data
64	69.360	6.540	57.049	49.748	42.505	Data

Table 124: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=49.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.556	6.454	57.031	50.748	42.490	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.575	6.480	57.031	50.747	42.490	Data
30	69.601	6.526	57.032	50.752	42.441	Data
30	70.361	6.563	57.022	50.748	42.487	Data
30	70.571	6.526	57.015	50.749	42.489	Data
30	69.449	6.561	57.048	50.742	42.505	Data
30	70.126	6.502	57.046	50.743	42.505	Data
30	70.986	6.493	57.043	50.752	42.499	Data
30	71.556	6.454	57.031	50.748	42.490	Data
30	68.948	6.548	57.031	50.753	42.440	Data
30	70.575	6.480	57.031	50.747	42.490	Data
30	70.580	6.496	57.048	50.751	42.498	Data
42	70.571	6.526	57.015	50.749	42.489	Data
42	70.361	6.563	57.022	50.748	42.487	Data
43	70.571	6.526	57.015	50.749	42.489	Data
43	70.361	6.563	57.022	50.748	42.487	Data
44	70.571	6.526	57.015	50.749	42.489	Data
44	70.361	6.563	57.022	50.748	42.487	Data
45	70.571	6.526	57.015	50.749	42.489	Data
45	70.361	6.563	57.022	50.748	42.487	Data
46.5	70.575	6.480	57.031	50.747	42.490	Data
46.5	71.556	6.454	57.031	50.748	42.490	Data
48	68.948	6.548	57.031	50.753	42.440	Data
48	69.601	6.526	57.032	50.752	42.441	Data
49	68.948	6.548	57.031	50.753	42.440	Data
49	69.601	6.526	57.032	50.752	42.441	Data
50	68.948	6.548	57.031	50.753	42.440	Data
50	69.601	6.526	57.032	50.752	42.441	Data
51	68.948	6.548	57.031	50.753	42.440	Data
51	69.601	6.526	57.032	50.752	42.441	Data
52.5	70.575	6.480	57.031	50.747	42.490	Data
52.5	71.556	6.454	57.031	50.748	42.490	Data
54	70.580	6.496	57.048	50.751	42.498	Data
54	70.986	6.493	57.043	50.752	42.499	Data
55	70.580	6.496	57.048	50.751	42.498	Data
55	70.986	6.493	57.043	50.752	42.499	Data
56	70.580	6.496	57.048	50.751	42.498	Data
56	70.986	6.493	57.043	50.752	42.499	Data
57	70.580	6.496	57.048	50.751	42.498	Data
57	70.986	6.493	57.043	50.752	42.499	Data
58.5	70.575	6.480	57.031	50.747	42.490	Data
58.5	71.556	6.454	57.031	50.748	42.490	Data
60.5	70.126	6.502	57.046	50.743	42.505	Data
60.5	69.449	6.561	57.048	50.742	42.505	Data
61.75	70.126	6.502	57.046	50.743	42.505	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.449	6.561	57.048	50.742	42.505	Data
63	70.126	6.502	57.046	50.743	42.505	Data
63	69.449	6.561	57.048	50.742	42.505	Data
64	69.449	6.561	57.048	50.742	42.505	Data
64	70.126	6.502	57.046	50.743	42.505	Data

Table 125: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.018	6.501	57.025	51.742	42.490	Data
8	71.351	6.472	57.024	51.743	42.489	Data
30	68.220	6.532	57.050	51.744	42.505	Data
30	70.412	6.518	57.023	51.746	42.486	Data
30	67.454	6.527	57.044	51.746	42.504	Data
30	71.351	6.472	57.024	51.743	42.489	Data
30	69.880	6.526	57.021	51.745	42.488	Data
30	69.013	6.582	57.040	51.755	42.441	Data
30	71.498	6.495	57.043	51.747	42.498	Data
30	71.458	6.486	57.050	51.747	42.499	Data
30	71.018	6.501	57.025	51.742	42.490	Data
30	69.222	6.496	57.034	51.755	42.439	Data
42	70.412	6.518	57.023	51.746	42.486	Data
42	69.880	6.526	57.021	51.745	42.488	Data
43	70.412	6.518	57.023	51.746	42.486	Data
43	69.880	6.526	57.021	51.745	42.488	Data
44	70.412	6.518	57.023	51.746	42.486	Data
44	69.880	6.526	57.021	51.745	42.488	Data
45	70.412	6.518	57.023	51.746	42.486	Data
45	69.880	6.526	57.021	51.745	42.488	Data
46.5	71.018	6.501	57.025	51.742	42.490	Data
46.5	71.351	6.472	57.024	51.743	42.489	Data
48	69.222	6.496	57.034	51.755	42.439	Data
48	69.013	6.582	57.040	51.755	42.441	Data
49	69.222	6.496	57.034	51.755	42.439	Data
49	69.013	6.582	57.040	51.755	42.441	Data
50	69.222	6.496	57.034	51.755	42.439	Data
50	69.013	6.582	57.040	51.755	42.441	Data
51	69.222	6.496	57.034	51.755	42.439	Data
51	69.013	6.582	57.040	51.755	42.441	Data
52.5	71.018	6.501	57.025	51.742	42.490	Data
52.5	71.351	6.472	57.024	51.743	42.489	Data
54	71.498	6.495	57.043	51.747	42.498	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	71.458	6.486	57.050	51.747	42.499	Data
55	71.498	6.495	57.043	51.747	42.498	Data
55	71.458	6.486	57.050	51.747	42.499	Data
56	71.458	6.486	57.050	51.747	42.499	Data
56	71.498	6.495	57.043	51.747	42.498	Data
57	71.458	6.486	57.050	51.747	42.499	Data
57	71.498	6.495	57.043	51.747	42.498	Data
58.5	71.351	6.472	57.024	51.743	42.489	Data
58.5	71.018	6.501	57.025	51.742	42.490	Data
60.5	67.454	6.527	57.044	51.746	42.504	Data
60.5	68.220	6.532	57.050	51.744	42.505	Data
61.75	67.454	6.527	57.044	51.746	42.504	Data
61.75	68.220	6.532	57.050	51.744	42.505	Data
63	67.454	6.527	57.044	51.746	42.504	Data
63	68.220	6.532	57.050	51.744	42.505	Data
64	67.454	6.527	57.044	51.746	42.504	Data
64	68.220	6.532	57.050	51.744	42.505	Data

Table 126: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=51.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.728	6.497	57.025	52.741	42.489	Data
8	70.823	6.480	57.029	52.739	42.489	Data
30	68.707	6.491	57.053	52.739	42.503	Data
30	68.184	6.500	57.048	52.74	42.505	Data
30	71.395	6.460	57.041	52.754	42.498	Data
30	70.279	6.538	57.013	52.749	42.488	Data
30	69.378	6.534	57.038	52.744	42.441	Data
30	70.823	6.480	57.029	52.739	42.489	Data
30	70.376	6.509	57.020	52.749	42.486	Data
30	71.024	6.474	57.044	52.753	42.499	Data
30	69.530	6.531	57.037	52.745	42.439	Data
30	70.728	6.497	57.025	52.741	42.489	Data
42	70.279	6.538	57.013	52.749	42.488	Data
42	70.376	6.509	57.020	52.749	42.486	Data
43	70.279	6.538	57.013	52.749	42.488	Data
43	70.376	6.509	57.020	52.749	42.486	Data
44	70.376	6.509	57.020	52.749	42.486	Data
44	70.279	6.538	57.013	52.749	42.488	Data
45	70.376	6.509	57.020	52.749	42.486	Data
45	70.279	6.538	57.013	52.749	42.488	Data
46.5	70.728	6.497	57.025	52.741	42.489	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.823	6.480	57.029	52.739	42.489	Data
48	69.378	6.534	57.038	52.744	42.441	Data
48	69.530	6.531	57.037	52.745	42.439	Data
49	69.378	6.534	57.038	52.744	42.441	Data
49	69.530	6.531	57.037	52.745	42.439	Data
50	69.378	6.534	57.038	52.744	42.441	Data
50	69.530	6.531	57.037	52.745	42.439	Data
51	69.378	6.534	57.038	52.744	42.441	Data
51	69.530	6.531	57.037	52.745	42.439	Data
52.5	70.728	6.497	57.025	52.741	42.489	Data
52.5	70.823	6.480	57.029	52.739	42.489	Data
54	71.024	6.474	57.044	52.753	42.499	Data
54	71.395	6.460	57.041	52.754	42.498	Data
55	71.024	6.474	57.044	52.753	42.499	Data
55	71.395	6.460	57.041	52.754	42.498	Data
56	71.024	6.474	57.044	52.753	42.499	Data
56	71.395	6.460	57.041	52.754	42.498	Data
57	71.024	6.474	57.044	52.753	42.499	Data
57	71.395	6.460	57.041	52.754	42.498	Data
58.5	70.728	6.497	57.025	52.741	42.489	Data
58.5	70.823	6.480	57.029	52.739	42.489	Data
60.5	68.707	6.491	57.053	52.739	42.503	Data
60.5	68.184	6.500	57.048	52.74	42.505	Data
61.75	68.707	6.491	57.053	52.739	42.503	Data
61.75	68.184	6.500	57.048	52.74	42.505	Data
63	68.707	6.491	57.053	52.739	42.503	Data
63	68.184	6.500	57.048	52.74	42.505	Data
64	68.707	6.491	57.053	52.739	42.503	Data
64	68.184	6.500	57.048	52.74	42.505	Data

Table 127: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.344	6.554	57.022	53.739	42.489	Data
8	71.597	6.555	57.024	53.739	42.488	Data
30	69.510	6.612	57.036	53.738	42.439	Data
30	69.033	6.561	57.033	53.739	42.438	Data
30	71.395	6.455	57.047	53.745	42.498	Data
30	70.834	6.512	57.041	53.744	42.498	Data
30	68.584	6.526	57.053	53.737	42.505	Data
30	68.333	6.549	57.053	53.738	42.503	Data
30	71.597	6.555	57.024	53.739	42.488	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.519	6.557	57.017	53.74	42.486	Data
30	71.344	6.554	57.022	53.739	42.489	Data
30	70.188	6.507	57.016	53.742	42.485	Data
42	70.519	6.557	57.017	53.74	42.486	Data
42	70.188	6.507	57.016	53.742	42.485	Data
43	70.519	6.557	57.017	53.74	42.486	Data
43	70.188	6.507	57.016	53.742	42.485	Data
44	70.519	6.557	57.017	53.74	42.486	Data
44	70.188	6.507	57.016	53.742	42.485	Data
45	70.519	6.557	57.017	53.74	42.486	Data
45	70.188	6.507	57.016	53.742	42.485	Data
46.5	71.597	6.555	57.024	53.739	42.488	Data
46.5	71.344	6.554	57.022	53.739	42.489	Data
48	69.510	6.612	57.036	53.738	42.439	Data
48	69.033	6.561	57.033	53.739	42.438	Data
49	69.510	6.612	57.036	53.738	42.439	Data
49	69.033	6.561	57.033	53.739	42.438	Data
50	69.510	6.612	57.036	53.738	42.439	Data
50	69.033	6.561	57.033	53.739	42.438	Data
51	69.510	6.612	57.036	53.738	42.439	Data
51	69.033	6.561	57.033	53.739	42.438	Data
52.5	71.597	6.555	57.024	53.739	42.488	Data
52.5	71.344	6.554	57.022	53.739	42.489	Data
54	71.395	6.455	57.047	53.745	42.498	Data
54	70.834	6.512	57.041	53.744	42.498	Data
55	71.395	6.455	57.047	53.745	42.498	Data
55	70.834	6.512	57.041	53.744	42.498	Data
56	71.395	6.455	57.047	53.745	42.498	Data
56	70.834	6.512	57.041	53.744	42.498	Data
57	71.395	6.455	57.047	53.745	42.498	Data
57	70.834	6.512	57.041	53.744	42.498	Data
58.5	71.344	6.554	57.022	53.739	42.489	Data
58.5	71.597	6.555	57.024	53.739	42.488	Data
60.5	68.333	6.549	57.053	53.738	42.503	Data
60.5	68.584	6.526	57.053	53.737	42.505	Data
61.75	68.333	6.549	57.053	53.738	42.503	Data
61.75	68.584	6.526	57.053	53.737	42.505	Data
63	68.333	6.549	57.053	53.738	42.503	Data
63	68.584	6.526	57.053	53.737	42.505	Data
64	68.333	6.549	57.053	53.738	42.503	Data
64	68.584	6.526	57.053	53.737	42.505	Data

Table 128: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=53.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.890	6.495	57.020	54.735	42.488	Data
8	71.252	6.454	57.023	54.734	42.488	Data
30	70.008	6.578	57.016	54.736	42.486	Data
30	70.518	6.486	57.045	54.746	42.501	Data
30	69.205	6.513	57.038	54.746	42.439	Data
30	70.503	6.533	57.042	54.747	42.501	Data
30	70.890	6.495	57.020	54.735	42.488	Data
30	70.178	6.511	57.035	54.746	42.439	Data
30	70.428	6.531	57.008	54.736	42.485	Data
30	71.252	6.454	57.023	54.734	42.488	Data
30	68.469	6.577	57.059	54.739	42.505	Data
30	68.507	6.474	57.056	54.737	42.505	Data
42	70.008	6.578	57.016	54.736	42.486	Data
42	70.428	6.531	57.008	54.736	42.485	Data
43	70.008	6.578	57.016	54.736	42.486	Data
43	70.428	6.531	57.008	54.736	42.485	Data
44	70.008	6.578	57.016	54.736	42.486	Data
44	70.428	6.531	57.008	54.736	42.485	Data
45	70.008	6.578	57.016	54.736	42.486	Data
45	70.428	6.531	57.008	54.736	42.485	Data
46.5	70.890	6.495	57.020	54.735	42.488	Data
46.5	71.252	6.454	57.023	54.734	42.488	Data
48	70.178	6.511	57.035	54.746	42.439	Data
48	69.205	6.513	57.038	54.746	42.439	Data
49	70.178	6.511	57.035	54.746	42.439	Data
49	69.205	6.513	57.038	54.746	42.439	Data
50	70.178	6.511	57.035	54.746	42.439	Data
50	69.205	6.513	57.038	54.746	42.439	Data
51	70.178	6.511	57.035	54.746	42.439	Data
51	69.205	6.513	57.038	54.746	42.439	Data
52.5	70.890	6.495	57.020	54.735	42.488	Data
52.5	71.252	6.454	57.023	54.734	42.488	Data
54	70.503	6.533	57.042	54.747	42.501	Data
54	70.518	6.486	57.045	54.746	42.501	Data
55	70.503	6.533	57.042	54.747	42.501	Data
55	70.518	6.486	57.045	54.746	42.501	Data
56	70.503	6.533	57.042	54.747	42.501	Data
56	70.518	6.486	57.045	54.746	42.501	Data
57	70.503	6.533	57.042	54.747	42.501	Data
57	70.518	6.486	57.045	54.746	42.501	Data
58.5	70.890	6.495	57.020	54.735	42.488	Data
58.5	71.252	6.454	57.023	54.734	42.488	Data
60.5	68.507	6.474	57.056	54.737	42.505	Data
60.5	68.469	6.577	57.059	54.739	42.505	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	68.507	6.474	57.056	54.737	42.505	Data
61.75	68.469	6.577	57.059	54.739	42.505	Data
63	68.507	6.474	57.056	54.737	42.505	Data
63	68.469	6.577	57.059	54.739	42.505	Data
64	68.507	6.474	57.056	54.737	42.505	Data
64	68.469	6.577	57.059	54.739	42.505	Data

Table 129: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.897	6.436	57.028	55.735	42.487	Data
8	71.450	6.498	57.023	55.735	42.487	Data
30	69.938	6.575	57.033	55.741	42.439	Data
30	70.545	6.493	57.012	55.741	42.484	Data
30	70.185	6.549	57.036	55.742	42.440	Data
30	68.291	6.510	57.060	55.742	42.505	Data
30	70.068	6.484	57.010	55.74	42.485	Data
30	71.897	6.436	57.028	55.735	42.487	Data
30	71.450	6.498	57.023	55.735	42.487	Data
30	68.897	6.506	57.055	55.742	42.506	Data
30	70.653	6.491	57.042	55.74	42.500	Data
30	70.778	6.453	57.043	55.741	42.500	Data
42	70.068	6.484	57.010	55.74	42.485	Data
42	70.545	6.493	57.012	55.741	42.484	Data
43	70.068	6.484	57.010	55.74	42.485	Data
43	70.545	6.493	57.012	55.741	42.484	Data
44	70.068	6.484	57.010	55.74	42.485	Data
44	70.545	6.493	57.012	55.741	42.484	Data
45	70.068	6.484	57.010	55.74	42.485	Data
45	70.545	6.493	57.012	55.741	42.484	Data
46.5	71.897	6.436	57.028	55.735	42.487	Data
46.5	71.450	6.498	57.023	55.735	42.487	Data
48	69.938	6.575	57.033	55.741	42.439	Data
48	70.185	6.549	57.036	55.742	42.440	Data
49	69.938	6.575	57.033	55.741	42.439	Data
49	70.185	6.549	57.036	55.742	42.440	Data
50	69.938	6.575	57.033	55.741	42.439	Data
50	70.185	6.549	57.036	55.742	42.440	Data
51	69.938	6.575	57.033	55.741	42.439	Data
51	70.185	6.549	57.036	55.742	42.440	Data
52.5	71.897	6.436	57.028	55.735	42.487	Data
52.5	71.450	6.498	57.023	55.735	42.487	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	70.653	6.491	57.042	55.74	42.500	Data
54	70.778	6.453	57.043	55.741	42.500	Data
55	70.653	6.491	57.042	55.74	42.500	Data
55	70.778	6.453	57.043	55.741	42.500	Data
56	70.653	6.491	57.042	55.74	42.500	Data
56	70.778	6.453	57.043	55.741	42.500	Data
57	70.653	6.491	57.042	55.74	42.500	Data
57	70.778	6.453	57.043	55.741	42.500	Data
58.5	71.450	6.498	57.023	55.735	42.487	Data
58.5	71.897	6.436	57.028	55.735	42.487	Data
60.5	68.291	6.510	57.060	55.742	42.505	Data
60.5	68.897	6.506	57.055	55.742	42.506	Data
61.75	68.291	6.510	57.060	55.742	42.505	Data
61.75	68.897	6.506	57.055	55.742	42.506	Data
63	68.291	6.510	57.060	55.742	42.505	Data
63	68.897	6.506	57.055	55.742	42.506	Data
64	68.291	6.510	57.060	55.742	42.505	Data
64	68.897	6.506	57.055	55.742	42.506	Data

Table 130: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=55.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.929	6.539	57.024	56.743	42.487	Data
8	71.541	6.505	57.026	56.742	42.486	Data
30	71.541	6.505	57.026	56.742	42.486	Data
30	68.712	6.509	57.056	56.745	42.507	Data
30	69.806	6.541	57.041	56.746	42.440	Data
30	69.774	6.535	57.035	56.747	42.439	Data
30	70.624	6.566	57.018	56.746	42.485	Data
30	70.981	6.543	57.023	56.745	42.484	Data
30	69.031	6.504	57.056	56.745	42.507	Data
30	71.929	6.539	57.024	56.743	42.487	Data
30	71.122	6.467	57.058	56.753	42.498	Data
30	71.320	6.513	57.040	56.755	42.499	Data
42	70.624	6.566	57.018	56.746	42.485	Data
42	70.981	6.543	57.023	56.745	42.484	Data
43	70.624	6.566	57.018	56.746	42.485	Data
43	70.981	6.543	57.023	56.745	42.484	Data
44	70.624	6.566	57.018	56.746	42.485	Data
44	70.981	6.543	57.023	56.745	42.484	Data
45	70.624	6.566	57.018	56.746	42.485	Data
45	70.981	6.543	57.023	56.745	42.484	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	71.541	6.505	57.026	56.742	42.486	Data
46.5	71.929	6.539	57.024	56.743	42.487	Data
48	69.806	6.541	57.041	56.746	42.440	Data
48	69.774	6.535	57.035	56.747	42.439	Data
49	69.806	6.541	57.041	56.746	42.440	Data
49	69.774	6.535	57.035	56.747	42.439	Data
50	69.806	6.541	57.041	56.746	42.440	Data
50	69.774	6.535	57.035	56.747	42.439	Data
51	69.806	6.541	57.041	56.746	42.440	Data
51	69.774	6.535	57.035	56.747	42.439	Data
52.5	71.541	6.505	57.026	56.742	42.486	Data
52.5	71.929	6.539	57.024	56.743	42.487	Data
54	71.122	6.467	57.058	56.753	42.498	Data
54	71.320	6.513	57.040	56.755	42.499	Data
55	71.122	6.467	57.058	56.753	42.498	Data
55	71.320	6.513	57.040	56.755	42.499	Data
56	71.122	6.467	57.058	56.753	42.498	Data
56	71.320	6.513	57.040	56.755	42.499	Data
57	71.122	6.467	57.058	56.753	42.498	Data
57	71.320	6.513	57.040	56.755	42.499	Data
58.5	71.541	6.505	57.026	56.742	42.486	Data
58.5	71.929	6.539	57.024	56.743	42.487	Data
60.5	69.031	6.504	57.056	56.745	42.507	Data
60.5	68.712	6.509	57.056	56.745	42.507	Data
61.75	69.031	6.504	57.056	56.745	42.507	Data
61.75	68.712	6.509	57.056	56.745	42.507	Data
63	69.031	6.504	57.056	56.745	42.507	Data
63	68.712	6.509	57.056	56.745	42.507	Data
64	69.031	6.504	57.056	56.745	42.507	Data
64	68.712	6.509	57.056	56.745	42.507	Data

Table 131: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.553	6.454	57.030	57.755	42.486	Data
8	70.604	6.516	57.028	57.754	42.485	Data
30	70.553	6.454	57.030	57.755	42.486	Data
30	70.847	6.536	57.053	57.757	42.499	Data
30	70.732	6.502	57.058	57.757	42.499	Data
30	70.604	6.516	57.028	57.754	42.485	Data
30	68.469	6.507	57.054	57.749	42.508	Data
30	70.833	6.568	57.016	57.746	42.483	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.400	6.498	57.020	57.746	42.483	Data
30	69.598	6.593	57.018	57.763	42.441	Data
30	68.914	6.496	57.059	57.748	42.508	Data
30	70.141	6.527	57.017	57.764	42.441	Data
42	71.400	6.498	57.020	57.746	42.483	Data
42	70.833	6.568	57.016	57.746	42.483	Data
43	71.400	6.498	57.020	57.746	42.483	Data
43	70.833	6.568	57.016	57.746	42.483	Data
44	71.400	6.498	57.020	57.746	42.483	Data
44	70.833	6.568	57.016	57.746	42.483	Data
45	71.400	6.498	57.020	57.746	42.483	Data
45	70.833	6.568	57.016	57.746	42.483	Data
46.5	70.553	6.454	57.030	57.755	42.486	Data
46.5	70.604	6.516	57.028	57.754	42.485	Data
48	70.141	6.527	57.017	57.764	42.441	Data
48	69.598	6.593	57.018	57.763	42.441	Data
49	70.141	6.527	57.017	57.764	42.441	Data
49	69.598	6.593	57.018	57.763	42.441	Data
50	70.141	6.527	57.017	57.764	42.441	Data
50	69.598	6.593	57.018	57.763	42.441	Data
51	70.141	6.527	57.017	57.764	42.441	Data
51	69.598	6.593	57.018	57.763	42.441	Data
52.5	70.553	6.454	57.030	57.755	42.486	Data
52.5	70.604	6.516	57.028	57.754	42.485	Data
54	70.847	6.536	57.053	57.757	42.499	Data
54	70.732	6.502	57.058	57.757	42.499	Data
55	70.847	6.536	57.053	57.757	42.499	Data
55	70.732	6.502	57.058	57.757	42.499	Data
56	70.847	6.536	57.053	57.757	42.499	Data
56	70.732	6.502	57.058	57.757	42.499	Data
57	70.847	6.536	57.053	57.757	42.499	Data
57	70.732	6.502	57.058	57.757	42.499	Data
58.5	70.553	6.454	57.030	57.755	42.486	Data
58.5	70.604	6.516	57.028	57.754	42.485	Data
60.5	68.469	6.507	57.054	57.749	42.508	Data
60.5	68.914	6.496	57.059	57.748	42.508	Data
61.75	68.469	6.507	57.054	57.749	42.508	Data
61.75	68.914	6.496	57.059	57.748	42.508	Data
63	68.469	6.507	57.054	57.749	42.508	Data
63	68.914	6.496	57.059	57.748	42.508	Data
64	68.469	6.507	57.054	57.749	42.508	Data
64	68.914	6.496	57.059	57.748	42.508	Data

Table 132: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=57.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.844	6.529	57.027	58.756	42.484	Data
8	70.336	6.476	57.023	58.756	42.484	Data
30	70.015	6.609	57.007	58.756	42.443	Data
30	71.654	6.458	57.059	58.75	42.498	Data
30	68.978	6.477	57.053	58.754	42.510	Data
30	70.064	6.585	57.007	58.756	42.443	Data
30	70.497	6.554	57.011	58.756	42.483	Data
30	70.844	6.529	57.027	58.756	42.484	Data
30	69.513	6.543	57.056	58.754	42.510	Data
30	70.128	6.533	57.019	58.756	42.483	Data
30	70.336	6.476	57.023	58.756	42.484	Data
30	71.029	6.487	57.056	58.75	42.498	Data
42	70.497	6.554	57.011	58.756	42.483	Data
42	70.128	6.533	57.019	58.756	42.483	Data
43	70.497	6.554	57.011	58.756	42.483	Data
43	70.128	6.533	57.019	58.756	42.483	Data
44	70.497	6.554	57.011	58.756	42.483	Data
44	70.128	6.533	57.019	58.756	42.483	Data
45	70.497	6.554	57.011	58.756	42.483	Data
45	70.128	6.533	57.019	58.756	42.483	Data
46.5	70.336	6.476	57.023	58.756	42.484	Data
46.5	70.844	6.529	57.027	58.756	42.484	Data
48	70.064	6.585	57.007	58.756	42.443	Data
48	70.015	6.609	57.007	58.756	42.443	Data
49	70.064	6.585	57.007	58.756	42.443	Data
49	70.015	6.609	57.007	58.756	42.443	Data
50	70.064	6.585	57.007	58.756	42.443	Data
50	70.015	6.609	57.007	58.756	42.443	Data
51	70.064	6.585	57.007	58.756	42.443	Data
51	70.015	6.609	57.007	58.756	42.443	Data
52.5	70.336	6.476	57.023	58.756	42.484	Data
52.5	70.844	6.529	57.027	58.756	42.484	Data
54	71.029	6.487	57.056	58.75	42.498	Data
54	71.654	6.458	57.059	58.75	42.498	Data
55	71.029	6.487	57.056	58.75	42.498	Data
55	71.654	6.458	57.059	58.75	42.498	Data
56	71.029	6.487	57.056	58.75	42.498	Data
56	71.654	6.458	57.059	58.75	42.498	Data
57	71.029	6.487	57.056	58.75	42.498	Data
57	71.654	6.458	57.059	58.75	42.498	Data
58.5	70.336	6.476	57.023	58.756	42.484	Data
58.5	70.844	6.529	57.027	58.756	42.484	Data
60.5	69.513	6.543	57.056	58.754	42.510	Data
60.5	68.978	6.477	57.053	58.754	42.510	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.513	6.543	57.056	58.754	42.510	Data
61.75	68.978	6.477	57.053	58.754	42.510	Data
63	69.513	6.543	57.056	58.754	42.510	Data
63	68.978	6.477	57.053	58.754	42.510	Data
64	69.513	6.543	57.056	58.754	42.510	Data
64	68.978	6.477	57.053	58.754	42.510	Data

Table 133: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.729	6.514	57.027	59.757	42.483	Data
8	71.084	6.555	57.023	59.757	42.483	Data
30	70.330	6.572	57.012	59.754	42.483	Data
30	70.517	6.500	57.012	59.754	42.481	Data
30	69.562	6.544	57.058	59.754	42.511	Data
30	71.424	6.557	57.057	59.751	42.497	Data
30	69.455	6.519	57.053	59.755	42.510	Data
30	70.469	6.501	57.007	59.758	42.445	Data
30	71.084	6.555	57.023	59.757	42.483	Data
30	71.046	6.481	57.063	59.752	42.497	Data
30	69.927	6.546	57.003	59.758	42.445	Data
30	70.729	6.514	57.027	59.757	42.483	Data
42	70.330	6.572	57.012	59.754	42.483	Data
42	70.517	6.500	57.012	59.754	42.481	Data
43	70.330	6.572	57.012	59.754	42.483	Data
43	70.517	6.500	57.012	59.754	42.481	Data
44	70.330	6.572	57.012	59.754	42.483	Data
44	70.517	6.500	57.012	59.754	42.481	Data
45	70.330	6.572	57.012	59.754	42.483	Data
45	70.517	6.500	57.012	59.754	42.481	Data
46.5	71.084	6.555	57.023	59.757	42.483	Data
46.5	70.729	6.514	57.027	59.757	42.483	Data
48	70.469	6.501	57.007	59.758	42.445	Data
48	69.927	6.546	57.003	59.758	42.445	Data
49	70.469	6.501	57.007	59.758	42.445	Data
49	69.927	6.546	57.003	59.758	42.445	Data
50	70.469	6.501	57.007	59.758	42.445	Data
50	69.927	6.546	57.003	59.758	42.445	Data
51	70.469	6.501	57.007	59.758	42.445	Data
51	69.927	6.546	57.003	59.758	42.445	Data
52.5	71.084	6.555	57.023	59.757	42.483	Data
52.5	70.729	6.514	57.027	59.757	42.483	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	71.424	6.557	57.057	59.751	42.497	Data
54	71.046	6.481	57.063	59.752	42.497	Data
55	71.424	6.557	57.057	59.751	42.497	Data
55	71.046	6.481	57.063	59.752	42.497	Data
56	71.424	6.557	57.057	59.751	42.497	Data
56	71.046	6.481	57.063	59.752	42.497	Data
57	71.424	6.557	57.057	59.751	42.497	Data
57	71.046	6.481	57.063	59.752	42.497	Data
58.5	70.729	6.514	57.027	59.757	42.483	Data
58.5	71.084	6.555	57.023	59.757	42.483	Data
60.5	69.455	6.519	57.053	59.755	42.510	Data
60.5	69.562	6.544	57.058	59.754	42.511	Data
61.75	69.455	6.519	57.053	59.755	42.510	Data
61.75	69.562	6.544	57.058	59.754	42.511	Data
63	69.455	6.519	57.053	59.755	42.510	Data
63	69.562	6.544	57.058	59.754	42.511	Data
64	69.455	6.519	57.053	59.755	42.510	Data
64	69.562	6.544	57.058	59.754	42.511	Data

Table 134: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=59.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.897	6.465	57.028	60.76	42.482	Data
8	70.347	6.564	57.026	60.76	42.482	Data
30	71.728	6.497	57.051	60.752	42.496	Data
30	69.857	6.498	57.064	60.754	42.509	Data
30	70.420	6.550	57.008	60.763	42.447	Data
30	70.347	6.564	57.026	60.76	42.482	Data
30	70.548	6.606	57.011	60.765	42.480	Data
30	70.943	6.531	57.007	60.763	42.447	Data
30	71.290	6.481	57.063	60.752	42.495	Data
30	70.532	6.558	57.009	60.764	42.480	Data
30	69.897	6.465	57.028	60.76	42.482	Data
30	70.027	6.543	57.055	60.752	42.509	Data
42	70.548	6.606	57.011	60.765	42.480	Data
42	70.532	6.558	57.009	60.764	42.480	Data
43	70.548	6.606	57.011	60.765	42.480	Data
43	70.532	6.558	57.009	60.764	42.480	Data
44	70.548	6.606	57.011	60.765	42.480	Data
44	70.532	6.558	57.009	60.764	42.480	Data
45	70.548	6.606	57.011	60.765	42.480	Data
45	70.532	6.558	57.009	60.764	42.480	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.347	6.564	57.026	60.76	42.482	Data
46.5	69.897	6.465	57.028	60.76	42.482	Data
48	70.420	6.550	57.008	60.763	42.447	Data
48	70.943	6.531	57.007	60.763	42.447	Data
49	70.420	6.550	57.008	60.763	42.447	Data
49	70.943	6.531	57.007	60.763	42.447	Data
50	70.420	6.550	57.008	60.763	42.447	Data
50	70.943	6.531	57.007	60.763	42.447	Data
51	70.420	6.550	57.008	60.763	42.447	Data
51	70.943	6.531	57.007	60.763	42.447	Data
52.5	70.347	6.564	57.026	60.76	42.482	Data
52.5	69.897	6.465	57.028	60.76	42.482	Data
54	71.728	6.497	57.051	60.752	42.496	Data
54	71.290	6.481	57.063	60.752	42.495	Data
55	71.728	6.497	57.051	60.752	42.496	Data
55	71.290	6.481	57.063	60.752	42.495	Data
56	71.728	6.497	57.051	60.752	42.496	Data
56	71.290	6.481	57.063	60.752	42.495	Data
57	71.728	6.497	57.051	60.752	42.496	Data
57	71.290	6.481	57.063	60.752	42.495	Data
58.5	69.897	6.465	57.028	60.76	42.482	Data
58.5	70.347	6.564	57.026	60.76	42.482	Data
60.5	69.857	6.498	57.064	60.754	42.509	Data
60.5	70.027	6.543	57.055	60.752	42.509	Data
61.75	69.857	6.498	57.064	60.754	42.509	Data
61.75	70.027	6.543	57.055	60.752	42.509	Data
63	69.857	6.498	57.064	60.754	42.509	Data
63	70.027	6.543	57.055	60.752	42.509	Data
64	70.027	6.543	57.055	60.752	42.509	Data
64	69.857	6.498	57.064	60.754	42.509	Data

Table 135: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 — VG at span y=60.5 (in)

D.11. Horizontal VG vortex sweep at height z=44, q=70, α_{VG}=4, α_W=7, RO-tip+6ft

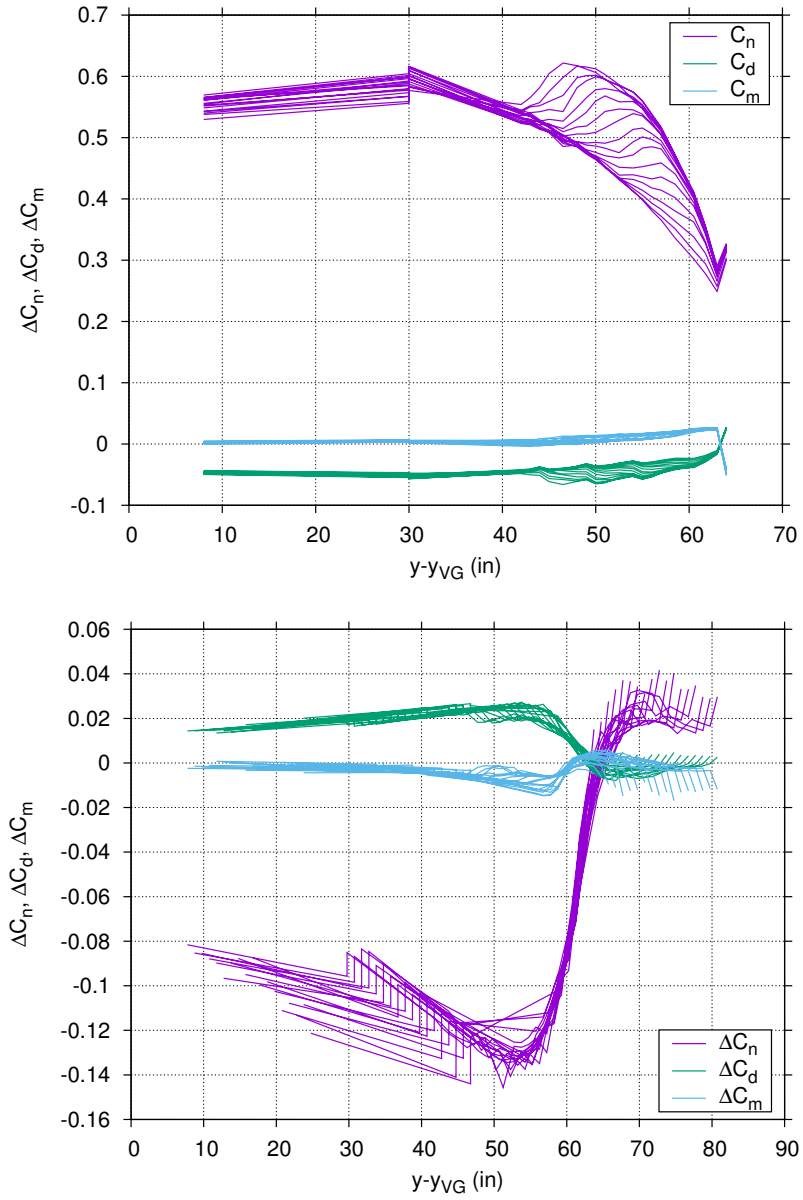

Figure 64. VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — (Data)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.371	6.468	92.991	43.754	44.000	Data
8	70.882	6.511	92.989	43.753	44.000	Data
30	70.685	6.540	93.001	43.753	43.999	Data
30	68.919	6.462	92.991	43.752	44.002	Data
30	69.763	6.543	92.985	43.758	43.998	Data
30	70.371	6.468	92.991	43.754	44.000	Data
30	70.802	6.527	92.981	43.757	44.010	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.935	6.543	92.996	43.752	44.002	Data
30	70.882	6.511	92.989	43.753	44.000	Data
30	69.468	6.558	93.002	43.755	43.999	Data
30	70.083	6.549	92.983	43.756	44.009	Data
30	69.020	6.505	92.981	43.757	43.999	Data
42	69.763	6.543	92.985	43.758	43.998	Data
42	69.020	6.505	92.981	43.757	43.999	Data
43	69.763	6.543	92.985	43.758	43.998	Data
43	69.020	6.505	92.981	43.757	43.999	Data
44	69.763	6.543	92.985	43.758	43.998	Data
44	69.020	6.505	92.981	43.757	43.999	Data
45	69.763	6.543	92.985	43.758	43.998	Data
45	69.020	6.505	92.981	43.757	43.999	Data
46.5	70.371	6.468	92.991	43.754	44.000	Data
46.5	70.882	6.511	92.989	43.753	44.000	Data
48	70.685	6.540	93.001	43.753	43.999	Data
48	69.468	6.558	93.002	43.755	43.999	Data
49	70.685	6.540	93.001	43.753	43.999	Data
49	69.468	6.558	93.002	43.755	43.999	Data
50	70.685	6.540	93.001	43.753	43.999	Data
50	69.468	6.558	93.002	43.755	43.999	Data
51	70.685	6.540	93.001	43.753	43.999	Data
51	69.468	6.558	93.002	43.755	43.999	Data
52.5	70.371	6.468	92.991	43.754	44.000	Data
52.5	70.882	6.511	92.989	43.753	44.000	Data
54	70.083	6.549	92.983	43.756	44.009	Data
54	70.802	6.527	92.981	43.757	44.010	Data
55	70.802	6.527	92.981	43.757	44.010	Data
55	70.083	6.549	92.983	43.756	44.009	Data
56	70.802	6.527	92.981	43.757	44.010	Data
56	70.083	6.549	92.983	43.756	44.009	Data
57	70.802	6.527	92.981	43.757	44.010	Data
57	70.083	6.549	92.983	43.756	44.009	Data
58.5	70.371	6.468	92.991	43.754	44.000	Data
58.5	70.882	6.511	92.989	43.753	44.000	Data
60.5	69.935	6.543	92.996	43.752	44.002	Data
60.5	68.919	6.462	92.991	43.752	44.002	Data
61.75	68.919	6.462	92.991	43.752	44.002	Data
61.75	69.935	6.543	92.996	43.752	44.002	Data
63	68.919	6.462	92.991	43.752	44.002	Data
63	69.935	6.543	92.996	43.752	44.002	Data
64	68.919	6.462	92.991	43.752	44.002	Data
64	69.935	6.543	92.996	43.752	44.002	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 136: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.021	6.482	92.989	44.743	44.001	Data
8	71.340	6.509	92.989	44.743	44.000	Data
30	69.244	6.490	92.994	44.742	44.002	Data
30	68.948	6.453	92.993	44.743	44.002	Data
30	69.944	6.517	92.988	44.74	43.998	Data
30	70.286	6.493	93.000	44.745	43.999	Data
30	69.027	6.515	92.982	44.741	43.998	Data
30	71.340	6.509	92.989	44.743	44.000	Data
30	70.528	6.550	93.002	44.746	43.999	Data
30	71.021	6.482	92.989	44.743	44.001	Data
30	70.419	6.544	92.980	44.749	44.008	Data
30	69.982	6.486	92.982	44.75	44.009	Data
42	69.027	6.515	92.982	44.741	43.998	Data
42	69.944	6.517	92.988	44.74	43.998	Data
43	69.027	6.515	92.982	44.741	43.998	Data
43	69.944	6.517	92.988	44.74	43.998	Data
44	69.027	6.515	92.982	44.741	43.998	Data
44	69.944	6.517	92.988	44.74	43.998	Data
45	69.027	6.515	92.982	44.741	43.998	Data
45	69.944	6.517	92.988	44.74	43.998	Data
46.5	71.021	6.482	92.989	44.743	44.001	Data
46.5	71.340	6.509	92.989	44.743	44.000	Data
48	70.286	6.493	93.000	44.745	43.999	Data
48	70.528	6.550	93.002	44.746	43.999	Data
49	70.286	6.493	93.000	44.745	43.999	Data
49	70.528	6.550	93.002	44.746	43.999	Data
50	70.286	6.493	93.000	44.745	43.999	Data
50	70.528	6.550	93.002	44.746	43.999	Data
51	70.286	6.493	93.000	44.745	43.999	Data
51	70.528	6.550	93.002	44.746	43.999	Data
52.5	71.021	6.482	92.989	44.743	44.001	Data
52.5	71.340	6.509	92.989	44.743	44.000	Data
54	70.419	6.544	92.980	44.749	44.008	Data
54	69.982	6.486	92.982	44.75	44.009	Data
55	70.419	6.544	92.980	44.749	44.008	Data
55	69.982	6.486	92.982	44.75	44.009	Data
56	70.419	6.544	92.980	44.749	44.008	Data
56	69.982	6.486	92.982	44.75	44.009	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	70.419	6.544	92.980	44.749	44.008	Data
57	69.982	6.486	92.982	44.75	44.009	Data
58.5	71.021	6.482	92.989	44.743	44.001	Data
58.5	71.340	6.509	92.989	44.743	44.000	Data
60.5	68.948	6.453	92.993	44.743	44.002	Data
60.5	69.244	6.490	92.994	44.742	44.002	Data
61.75	68.948	6.453	92.993	44.743	44.002	Data
61.75	69.244	6.490	92.994	44.742	44.002	Data
63	68.948	6.453	92.993	44.743	44.002	Data
63	69.244	6.490	92.994	44.742	44.002	Data
64	68.948	6.453	92.993	44.743	44.002	Data
64	69.244	6.490	92.994	44.742	44.002	Data

Table 137: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.683	6.450	92.985	45.742	44.000	Data
8	70.834	6.503	92.987	45.742	44.000	Data
30	70.834	6.503	92.987	45.742	44.000	Data
30	69.063	6.543	92.994	45.748	44.002	Data
30	70.289	6.515	92.999	45.74	43.999	Data
30	69.738	6.491	92.996	45.748	44.002	Data
30	70.683	6.450	92.985	45.742	44.000	Data
30	69.931	6.534	92.977	45.744	44.008	Data
30	69.803	6.579	92.997	45.74	43.999	Data
30	70.198	6.552	92.979	45.741	43.997	Data
30	69.710	6.514	92.988	45.741	43.998	Data
30	69.862	6.572	92.983	45.744	44.008	Data
42	69.710	6.514	92.988	45.741	43.998	Data
42	70.198	6.552	92.979	45.741	43.997	Data
43	69.710	6.514	92.988	45.741	43.998	Data
43	70.198	6.552	92.979	45.741	43.997	Data
44	69.710	6.514	92.988	45.741	43.998	Data
44	70.198	6.552	92.979	45.741	43.997	Data
45	69.710	6.514	92.988	45.741	43.998	Data
45	70.198	6.552	92.979	45.741	43.997	Data
46.5	70.683	6.450	92.985	45.742	44.000	Data
46.5	70.834	6.503	92.987	45.742	44.000	Data
48	69.803	6.579	92.997	45.74	43.999	Data
48	70.289	6.515	92.999	45.74	43.999	Data
49	69.803	6.579	92.997	45.74	43.999	Data
49	70.289	6.515	92.999	45.74	43.999	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	69.803	6.579	92.997	45.74	43.999	Data
50	70.289	6.515	92.999	45.74	43.999	Data
51	69.803	6.579	92.997	45.74	43.999	Data
51	70.289	6.515	92.999	45.74	43.999	Data
52.5	70.834	6.503	92.987	45.742	44.000	Data
52.5	70.683	6.450	92.985	45.742	44.000	Data
54	69.931	6.534	92.977	45.744	44.008	Data
54	69.862	6.572	92.983	45.744	44.008	Data
55	69.931	6.534	92.977	45.744	44.008	Data
55	69.862	6.572	92.983	45.744	44.008	Data
56	69.931	6.534	92.977	45.744	44.008	Data
56	69.862	6.572	92.983	45.744	44.008	Data
57	69.931	6.534	92.977	45.744	44.008	Data
57	69.862	6.572	92.983	45.744	44.008	Data
58.5	70.834	6.503	92.987	45.742	44.000	Data
58.5	70.683	6.450	92.985	45.742	44.000	Data
60.5	69.063	6.543	92.994	45.748	44.002	Data
60.5	69.738	6.491	92.996	45.748	44.002	Data
61.75	69.063	6.543	92.994	45.748	44.002	Data
61.75	69.738	6.491	92.996	45.748	44.002	Data
63	69.063	6.543	92.994	45.748	44.002	Data
63	69.738	6.491	92.996	45.748	44.002	Data
64	69.063	6.543	92.994	45.748	44.002	Data
64	69.738	6.491	92.996	45.748	44.002	Data

Table 138: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=45.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.994	6.536	92.991	46.739	43.999	Data
8	71.027	6.496	92.987	46.74	44.000	Data
30	70.994	6.536	92.991	46.739	43.999	Data
30	68.509	6.529	92.993	46.745	44.002	Data
30	69.812	6.569	93.002	46.741	43.999	Data
30	68.705	6.482	92.993	46.745	44.002	Data
30	70.622	6.555	92.987	46.742	43.998	Data
30	69.826	6.549	93.002	46.741	43.999	Data
30	71.027	6.496	92.987	46.74	44.000	Data
30	71.016	6.571	92.983	46.741	44.008	Data
30	70.193	6.546	92.977	46.739	44.007	Data
30	69.531	6.546	92.989	46.743	43.997	Data
42	70.622	6.555	92.987	46.742	43.998	Data
42	69.531	6.546	92.989	46.743	43.997	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	70.622	6.555	92.987	46.742	43.998	Data
43	69.531	6.546	92.989	46.743	43.997	Data
44	70.622	6.555	92.987	46.742	43.998	Data
44	69.531	6.546	92.989	46.743	43.997	Data
45	70.622	6.555	92.987	46.742	43.998	Data
45	69.531	6.546	92.989	46.743	43.997	Data
46.5	71.027	6.496	92.987	46.74	44.000	Data
46.5	70.994	6.536	92.991	46.739	43.999	Data
48	69.826	6.549	93.002	46.741	43.999	Data
48	69.812	6.569	93.002	46.741	43.999	Data
49	69.826	6.549	93.002	46.741	43.999	Data
49	69.812	6.569	93.002	46.741	43.999	Data
50	69.826	6.549	93.002	46.741	43.999	Data
50	69.812	6.569	93.002	46.741	43.999	Data
51	69.826	6.549	93.002	46.741	43.999	Data
51	69.812	6.569	93.002	46.741	43.999	Data
52.5	71.027	6.496	92.987	46.74	44.000	Data
52.5	70.994	6.536	92.991	46.739	43.999	Data
54	71.016	6.571	92.983	46.741	44.008	Data
54	70.193	6.546	92.977	46.739	44.007	Data
55	71.016	6.571	92.983	46.741	44.008	Data
55	70.193	6.546	92.977	46.739	44.007	Data
56	71.016	6.571	92.983	46.741	44.008	Data
56	70.193	6.546	92.977	46.739	44.007	Data
57	71.016	6.571	92.983	46.741	44.008	Data
57	70.193	6.546	92.977	46.739	44.007	Data
58.5	71.027	6.496	92.987	46.74	44.000	Data
58.5	70.994	6.536	92.991	46.739	43.999	Data
60.5	68.509	6.529	92.993	46.745	44.002	Data
60.5	68.705	6.482	92.993	46.745	44.002	Data
61.75	68.509	6.529	92.993	46.745	44.002	Data
61.75	68.705	6.482	92.993	46.745	44.002	Data
63	68.509	6.529	92.993	46.745	44.002	Data
63	68.705	6.482	92.993	46.745	44.002	Data
64	68.509	6.529	92.993	46.745	44.002	Data
64	68.705	6.482	92.993	46.745	44.002	Data

Table 139: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.257	6.484	92.987	47.747	44.000	Data
8	71.428	6.529	92.993	47.748	44.000	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.257	6.484	92.987	47.747	44.000	Data
30	69.546	6.541	92.990	47.742	44.002	Data
30	69.646	6.526	92.987	47.742	43.997	Data
30	70.279	6.518	93.000	47.747	43.998	Data
30	71.428	6.529	92.993	47.748	44.000	Data
30	70.245	6.511	92.989	47.743	43.997	Data
30	69.871	6.513	92.993	47.742	44.001	Data
30	70.176	6.511	93.002	47.747	43.999	Data
30	70.860	6.594	92.979	47.75	44.006	Data
30	70.329	6.594	92.983	47.75	44.008	Data
42	69.646	6.526	92.987	47.742	43.997	Data
42	70.245	6.511	92.989	47.743	43.997	Data
43	69.646	6.526	92.987	47.742	43.997	Data
43	70.245	6.511	92.989	47.743	43.997	Data
44	69.646	6.526	92.987	47.742	43.997	Data
44	70.245	6.511	92.989	47.743	43.997	Data
45	69.646	6.526	92.987	47.742	43.997	Data
45	70.245	6.511	92.989	47.743	43.997	Data
46.5	70.257	6.484	92.987	47.747	44.000	Data
46.5	71.428	6.529	92.993	47.748	44.000	Data
48	70.279	6.518	93.000	47.747	43.998	Data
48	70.176	6.511	93.002	47.747	43.999	Data
49	70.279	6.518	93.000	47.747	43.998	Data
49	70.176	6.511	93.002	47.747	43.999	Data
50	70.279	6.518	93.000	47.747	43.998	Data
50	70.176	6.511	93.002	47.747	43.999	Data
51	70.279	6.518	93.000	47.747	43.998	Data
51	70.176	6.511	93.002	47.747	43.999	Data
52.5	70.257	6.484	92.987	47.747	44.000	Data
52.5	71.428	6.529	92.993	47.748	44.000	Data
54	70.860	6.594	92.979	47.75	44.006	Data
54	70.329	6.594	92.983	47.75	44.008	Data
55	70.860	6.594	92.979	47.75	44.006	Data
55	70.329	6.594	92.983	47.75	44.008	Data
56	70.860	6.594	92.979	47.75	44.006	Data
56	70.329	6.594	92.983	47.75	44.008	Data
57	70.860	6.594	92.979	47.75	44.006	Data
57	70.329	6.594	92.983	47.75	44.008	Data
58.5	70.257	6.484	92.987	47.747	44.000	Data
58.5	71.428	6.529	92.993	47.748	44.000	Data
60.5	69.546	6.541	92.990	47.742	44.002	Data
60.5	69.871	6.513	92.993	47.742	44.001	Data
61.75	69.871	6.513	92.993	47.742	44.001	Data
61.75	69.546	6.541	92.990	47.742	44.002	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	69.871	6.513	92.993	47.742	44.001	Data
63	69.546	6.541	92.990	47.742	44.002	Data
64	69.871	6.513	92.993	47.742	44.001	Data
64	69.546	6.541	92.990	47.742	44.002	Data

Table 140: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=47.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.174	6.514	92.996	48.747	43.999	Data
8	71.284	6.477	92.988	48.746	43.999	Data
30	69.161	6.473	92.995	48.749	44.002	Data
30	68.826	6.484	92.997	48.748	44.002	Data
30	70.163	6.575	92.999	48.755	43.999	Data
30	70.720	6.528	92.987	48.754	43.996	Data
30	71.284	6.477	92.988	48.746	43.999	Data
30	71.174	6.514	92.996	48.747	43.999	Data
30	69.749	6.474	92.991	48.753	43.997	Data
30	69.859	6.546	92.982	48.753	44.006	Data
30	70.721	6.527	92.980	48.753	44.007	Data
30	70.522	6.533	93.005	48.754	43.999	Data
42	70.720	6.528	92.987	48.754	43.996	Data
42	69.749	6.474	92.991	48.753	43.997	Data
43	70.720	6.528	92.987	48.754	43.996	Data
43	69.749	6.474	92.991	48.753	43.997	Data
44	70.720	6.528	92.987	48.754	43.996	Data
44	69.749	6.474	92.991	48.753	43.997	Data
45	70.720	6.528	92.987	48.754	43.996	Data
45	69.749	6.474	92.991	48.753	43.997	Data
46.5	71.174	6.514	92.996	48.747	43.999	Data
46.5	71.284	6.477	92.988	48.746	43.999	Data
48	70.163	6.575	92.999	48.755	43.999	Data
48	70.522	6.533	93.005	48.754	43.999	Data
49	70.163	6.575	92.999	48.755	43.999	Data
49	70.522	6.533	93.005	48.754	43.999	Data
50	70.163	6.575	92.999	48.755	43.999	Data
50	70.522	6.533	93.005	48.754	43.999	Data
51	70.163	6.575	92.999	48.755	43.999	Data
51	70.522	6.533	93.005	48.754	43.999	Data
52.5	71.174	6.514	92.996	48.747	43.999	Data
52.5	71.284	6.477	92.988	48.746	43.999	Data
54	70.721	6.527	92.980	48.753	44.007	Data
54	69.859	6.546	92.982	48.753	44.006	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	70.721	6.527	92.980	48.753	44.007	Data
55	69.859	6.546	92.982	48.753	44.006	Data
56	69.859	6.546	92.982	48.753	44.006	Data
56	70.721	6.527	92.980	48.753	44.007	Data
57	69.859	6.546	92.982	48.753	44.006	Data
57	70.721	6.527	92.980	48.753	44.007	Data
58.5	71.174	6.514	92.996	48.747	43.999	Data
58.5	71.284	6.477	92.988	48.746	43.999	Data
60.5	68.826	6.484	92.997	48.748	44.002	Data
60.5	69.161	6.473	92.995	48.749	44.002	Data
61.75	68.826	6.484	92.997	48.748	44.002	Data
61.75	69.161	6.473	92.995	48.749	44.002	Data
63	68.826	6.484	92.997	48.748	44.002	Data
63	69.161	6.473	92.995	48.749	44.002	Data
64	68.826	6.484	92.997	48.748	44.002	Data
64	69.161	6.473	92.995	48.749	44.002	Data

Table 141: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.450	6.432	92.983	49.745	43.999	Data
8	71.271	6.523	92.985	49.743	43.999	Data
30	70.679	6.500	93.006	49.75	43.999	Data
30	71.450	6.432	92.983	49.745	43.999	Data
30	70.563	6.580	92.992	49.753	43.997	Data
30	69.597	6.510	92.995	49.748	44.002	Data
30	71.271	6.523	92.985	49.743	43.999	Data
30	70.203	6.571	92.979	49.758	44.006	Data
30	70.868	6.570	92.978	49.757	44.005	Data
30	69.877	6.517	92.989	49.747	44.002	Data
30	70.224	6.447	92.992	49.755	43.996	Data
30	70.116	6.536	93.004	49.749	43.998	Data
42	70.224	6.447	92.992	49.755	43.996	Data
42	70.563	6.580	92.992	49.753	43.997	Data
43	70.224	6.447	92.992	49.755	43.996	Data
43	70.563	6.580	92.992	49.753	43.997	Data
44	70.224	6.447	92.992	49.755	43.996	Data
44	70.563	6.580	92.992	49.753	43.997	Data
45	70.224	6.447	92.992	49.755	43.996	Data
45	70.563	6.580	92.992	49.753	43.997	Data
46.5	71.271	6.523	92.985	49.743	43.999	Data
46.5	71.450	6.432	92.983	49.745	43.999	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	70.679	6.500	93.006	49.75	43.999	Data
48	70.116	6.536	93.004	49.749	43.998	Data
49	70.679	6.500	93.006	49.75	43.999	Data
49	70.116	6.536	93.004	49.749	43.998	Data
50	70.679	6.500	93.006	49.75	43.999	Data
50	70.116	6.536	93.004	49.749	43.998	Data
51	70.679	6.500	93.006	49.75	43.999	Data
51	70.116	6.536	93.004	49.749	43.998	Data
52.5	71.271	6.523	92.985	49.743	43.999	Data
52.5	71.450	6.432	92.983	49.745	43.999	Data
54	70.868	6.570	92.978	49.757	44.005	Data
54	70.203	6.571	92.979	49.758	44.006	Data
55	70.868	6.570	92.978	49.757	44.005	Data
55	70.203	6.571	92.979	49.758	44.006	Data
56	70.868	6.570	92.978	49.757	44.005	Data
56	70.203	6.571	92.979	49.758	44.006	Data
57	70.868	6.570	92.978	49.757	44.005	Data
57	70.203	6.571	92.979	49.758	44.006	Data
58.5	71.450	6.432	92.983	49.745	43.999	Data
58.5	71.271	6.523	92.985	49.743	43.999	Data
60.5	69.597	6.510	92.995	49.748	44.002	Data
60.5	69.877	6.517	92.989	49.747	44.002	Data
61.75	69.597	6.510	92.995	49.748	44.002	Data
61.75	69.877	6.517	92.989	49.747	44.002	Data
63	69.597	6.510	92.995	49.748	44.002	Data
63	69.877	6.517	92.989	49.747	44.002	Data
64	69.597	6.510	92.995	49.748	44.002	Data
64	69.877	6.517	92.989	49.747	44.002	Data

Table 142: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=49.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.473	6.537	92.984	50.747	43.999	Data
8	71.787	6.536	92.984	50.748	43.999	Data
30	69.812	6.519	92.994	50.747	44.002	Data
30	70.358	6.500	92.990	50.752	43.996	Data
30	71.473	6.537	92.984	50.747	43.999	Data
30	70.669	6.590	93.007	50.75	43.998	Data
30	71.101	6.549	92.979	50.75	44.005	Data
30	70.445	6.484	92.983	50.752	43.996	Data
30	71.787	6.536	92.984	50.748	43.999	Data
30	68.979	6.462	93.001	50.747	44.002	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.046	6.528	92.984	50.75	44.006	Data
30	70.288	6.547	93.004	50.75	43.998	Data
42	70.358	6.500	92.990	50.752	43.996	Data
42	70.445	6.484	92.983	50.752	43.996	Data
43	70.358	6.500	92.990	50.752	43.996	Data
43	70.445	6.484	92.983	50.752	43.996	Data
44	70.358	6.500	92.990	50.752	43.996	Data
44	70.445	6.484	92.983	50.752	43.996	Data
45	70.358	6.500	92.990	50.752	43.996	Data
45	70.445	6.484	92.983	50.752	43.996	Data
46.5	71.473	6.537	92.984	50.747	43.999	Data
46.5	71.787	6.536	92.984	50.748	43.999	Data
48	70.669	6.590	93.007	50.75	43.998	Data
48	70.288	6.547	93.004	50.75	43.998	Data
49	70.669	6.590	93.007	50.75	43.998	Data
49	70.288	6.547	93.004	50.75	43.998	Data
50	70.669	6.590	93.007	50.75	43.998	Data
50	70.288	6.547	93.004	50.75	43.998	Data
51	70.669	6.590	93.007	50.75	43.998	Data
51	70.288	6.547	93.004	50.75	43.998	Data
52.5	71.473	6.537	92.984	50.747	43.999	Data
52.5	71.787	6.536	92.984	50.748	43.999	Data
54	71.101	6.549	92.979	50.75	44.005	Data
54	71.046	6.528	92.984	50.75	44.006	Data
55	71.101	6.549	92.979	50.75	44.005	Data
55	71.046	6.528	92.984	50.75	44.006	Data
56	71.101	6.549	92.979	50.75	44.005	Data
56	71.046	6.528	92.984	50.75	44.006	Data
57	71.101	6.549	92.979	50.75	44.005	Data
57	71.046	6.528	92.984	50.75	44.006	Data
58.5	71.473	6.537	92.984	50.747	43.999	Data
58.5	71.787	6.536	92.984	50.748	43.999	Data
60.5	69.812	6.519	92.994	50.747	44.002	Data
60.5	68.979	6.462	93.001	50.747	44.002	Data
61.75	69.812	6.519	92.994	50.747	44.002	Data
61.75	68.979	6.462	93.001	50.747	44.002	Data
63	69.812	6.519	92.994	50.747	44.002	Data
63	68.979	6.462	93.001	50.747	44.002	Data
64	69.812	6.519	92.994	50.747	44.002	Data
64	68.979	6.462	93.001	50.747	44.002	Data

Table 143: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.403	6.408	92.984	51.749	43.998	Data
8	71.546	6.556	92.986	51.75	43.998	Data
30	70.036	6.583	93.007	51.754	43.998	Data
30	70.341	6.507	92.993	51.746	43.996	Data
30	70.563	6.513	92.989	51.747	43.996	Data
30	71.403	6.408	92.984	51.749	43.998	Data
30	71.164	6.613	92.982	51.756	44.005	Data
30	70.898	6.546	93.007	51.754	43.998	Data
30	71.546	6.556	92.986	51.75	43.998	Data
30	69.857	6.496	92.995	51.744	44.002	Data
30	69.177	6.530	92.999	51.745	44.002	Data
30	70.760	6.592	92.980	51.753	44.005	Data
42	70.341	6.507	92.993	51.746	43.996	Data
42	70.563	6.513	92.989	51.747	43.996	Data
43	70.341	6.507	92.993	51.746	43.996	Data
43	70.563	6.513	92.989	51.747	43.996	Data
44	70.341	6.507	92.993	51.746	43.996	Data
44	70.563	6.513	92.989	51.747	43.996	Data
45	70.341	6.507	92.993	51.746	43.996	Data
45	70.563	6.513	92.989	51.747	43.996	Data
46.5	71.403	6.408	92.984	51.749	43.998	Data
46.5	71.546	6.556	92.986	51.75	43.998	Data
48	70.036	6.583	93.007	51.754	43.998	Data
48	70.898	6.546	93.007	51.754	43.998	Data
49	70.036	6.583	93.007	51.754	43.998	Data
49	70.898	6.546	93.007	51.754	43.998	Data
50	70.036	6.583	93.007	51.754	43.998	Data
50	70.898	6.546	93.007	51.754	43.998	Data
51	70.036	6.583	93.007	51.754	43.998	Data
51	70.898	6.546	93.007	51.754	43.998	Data
52.5	71.403	6.408	92.984	51.749	43.998	Data
52.5	71.546	6.556	92.986	51.75	43.998	Data
54	70.760	6.592	92.980	51.753	44.005	Data
54	71.164	6.613	92.982	51.756	44.005	Data
55	71.164	6.613	92.982	51.756	44.005	Data
55	70.760	6.592	92.980	51.753	44.005	Data
56	71.164	6.613	92.982	51.756	44.005	Data
56	70.760	6.592	92.980	51.753	44.005	Data
57	71.164	6.613	92.982	51.756	44.005	Data
57	70.760	6.592	92.980	51.753	44.005	Data
58.5	71.403	6.408	92.984	51.749	43.998	Data
58.5	71.546	6.556	92.986	51.75	43.998	Data
60.5	69.177	6.530	92.999	51.745	44.002	Data
60.5	69.857	6.496	92.995	51.744	44.002	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.177	6.530	92.999	51.745	44.002	Data
61.75	69.857	6.496	92.995	51.744	44.002	Data
63	69.177	6.530	92.999	51.745	44.002	Data
63	69.857	6.496	92.995	51.744	44.002	Data
64	69.177	6.530	92.999	51.745	44.002	Data
64	69.857	6.496	92.995	51.744	44.002	Data

Table 144: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=51.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	72.617	6.461	92.988	52.745	43.998	Data
8	72.318	6.463	92.978	52.746	43.998	Data
30	70.466	6.491	92.989	52.748	43.996	Data
30	72.617	6.461	92.988	52.745	43.998	Data
30	69.192	6.517	93.000	52.748	44.002	Data
30	71.317	6.522	93.002	52.749	43.998	Data
30	70.801	6.521	92.988	52.748	43.995	Data
30	69.761	6.478	92.997	52.749	44.002	Data
30	70.922	6.526	93.009	52.749	43.998	Data
30	70.850	6.585	92.980	52.748	44.004	Data
30	72.318	6.463	92.978	52.746	43.998	Data
30	70.883	6.589	92.989	52.749	44.004	Data
42	70.466	6.491	92.989	52.748	43.996	Data
42	70.801	6.521	92.988	52.748	43.995	Data
43	70.466	6.491	92.989	52.748	43.996	Data
43	70.801	6.521	92.988	52.748	43.995	Data
44	70.466	6.491	92.989	52.748	43.996	Data
44	70.801	6.521	92.988	52.748	43.995	Data
45	70.801	6.521	92.988	52.748	43.995	Data
45	70.466	6.491	92.989	52.748	43.996	Data
46.5	72.318	6.463	92.978	52.746	43.998	Data
46.5	72.617	6.461	92.988	52.745	43.998	Data
48	71.317	6.522	93.002	52.749	43.998	Data
48	70.922	6.526	93.009	52.749	43.998	Data
49	71.317	6.522	93.002	52.749	43.998	Data
49	70.922	6.526	93.009	52.749	43.998	Data
50	71.317	6.522	93.002	52.749	43.998	Data
50	70.922	6.526	93.009	52.749	43.998	Data
51	71.317	6.522	93.002	52.749	43.998	Data
51	70.922	6.526	93.009	52.749	43.998	Data
52.5	72.318	6.463	92.978	52.746	43.998	Data
52.5	72.617	6.461	92.988	52.745	43.998	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	70.850	6.585	92.980	52.748	44.004	Data
54	70.883	6.589	92.989	52.749	44.004	Data
55	70.850	6.585	92.980	52.748	44.004	Data
55	70.883	6.589	92.989	52.749	44.004	Data
56	70.850	6.585	92.980	52.748	44.004	Data
56	70.883	6.589	92.989	52.749	44.004	Data
57	70.850	6.585	92.980	52.748	44.004	Data
57	70.883	6.589	92.989	52.749	44.004	Data
58.5	72.318	6.463	92.978	52.746	43.998	Data
58.5	72.617	6.461	92.988	52.745	43.998	Data
60.5	69.192	6.517	93.000	52.748	44.002	Data
60.5	69.761	6.478	92.997	52.749	44.002	Data
61.75	69.192	6.517	93.000	52.748	44.002	Data
61.75	69.761	6.478	92.997	52.749	44.002	Data
63	69.192	6.517	93.000	52.748	44.002	Data
63	69.761	6.478	92.997	52.749	44.002	Data
64	69.192	6.517	93.000	52.748	44.002	Data
64	69.761	6.478	92.997	52.749	44.002	Data

Table 145: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.637	6.514	92.989	53.751	43.997	Data
8	70.568	6.471	92.985	53.751	43.997	Data
30	69.639	6.532	92.997	53.743	44.002	Data
30	69.933	6.511	92.991	53.742	44.002	Data
30	70.950	6.467	92.986	53.746	43.995	Data
30	70.571	6.550	93.007	53.747	43.998	Data
30	70.568	6.471	92.985	53.751	43.997	Data
30	70.285	6.514	92.989	53.746	43.995	Data
30	70.836	6.550	92.978	53.739	44.004	Data
30	71.286	6.566	92.982	53.74	44.004	Data
30	70.637	6.514	92.989	53.751	43.997	Data
30	70.979	6.507	93.013	53.747	43.998	Data
42	70.285	6.514	92.989	53.746	43.995	Data
42	70.950	6.467	92.986	53.746	43.995	Data
43	70.285	6.514	92.989	53.746	43.995	Data
43	70.950	6.467	92.986	53.746	43.995	Data
44	70.285	6.514	92.989	53.746	43.995	Data
44	70.950	6.467	92.986	53.746	43.995	Data
45	70.285	6.514	92.989	53.746	43.995	Data
45	70.950	6.467	92.986	53.746	43.995	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.568	6.471	92.985	53.751	43.997	Data
46.5	70.637	6.514	92.989	53.751	43.997	Data
48	70.571	6.550	93.007	53.747	43.998	Data
48	70.979	6.507	93.013	53.747	43.998	Data
49	70.571	6.550	93.007	53.747	43.998	Data
49	70.979	6.507	93.013	53.747	43.998	Data
50	70.571	6.550	93.007	53.747	43.998	Data
50	70.979	6.507	93.013	53.747	43.998	Data
51	70.571	6.550	93.007	53.747	43.998	Data
51	70.979	6.507	93.013	53.747	43.998	Data
52.5	70.568	6.471	92.985	53.751	43.997	Data
52.5	70.637	6.514	92.989	53.751	43.997	Data
54	71.286	6.566	92.982	53.74	44.004	Data
54	70.836	6.550	92.978	53.739	44.004	Data
55	71.286	6.566	92.982	53.74	44.004	Data
55	70.836	6.550	92.978	53.739	44.004	Data
56	71.286	6.566	92.982	53.74	44.004	Data
56	70.836	6.550	92.978	53.739	44.004	Data
57	71.286	6.566	92.982	53.74	44.004	Data
57	70.836	6.550	92.978	53.739	44.004	Data
58.5	70.568	6.471	92.985	53.751	43.997	Data
58.5	70.637	6.514	92.989	53.751	43.997	Data
60.5	69.639	6.532	92.997	53.743	44.002	Data
60.5	69.933	6.511	92.991	53.742	44.002	Data
61.75	69.639	6.532	92.997	53.743	44.002	Data
61.75	69.933	6.511	92.991	53.742	44.002	Data
63	69.639	6.532	92.997	53.743	44.002	Data
63	69.933	6.511	92.991	53.742	44.002	Data
64	69.639	6.532	92.997	53.743	44.002	Data
64	69.933	6.511	92.991	53.742	44.002	Data

Table 146: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=53.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.217	6.529	92.986	54.743	43.997	Data
8	70.328	6.438	92.987	54.743	43.996	Data
30	70.217	6.529	92.986	54.743	43.997	Data
30	71.161	6.534	92.975	54.737	44.004	Data
30	70.328	6.438	92.987	54.743	43.996	Data
30	70.386	6.468	92.996	54.744	44.002	Data
30	69.875	6.504	92.997	54.746	44.002	Data
30	71.553	6.578	92.975	54.739	44.004	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.293	6.532	93.006	54.742	43.997	Data
30	70.990	6.551	92.990	54.738	43.994	Data
30	70.269	6.522	92.990	54.737	43.994	Data
30	70.747	6.523	93.002	54.743	43.997	Data
42	70.269	6.522	92.990	54.737	43.994	Data
42	70.990	6.551	92.990	54.738	43.994	Data
43	70.269	6.522	92.990	54.737	43.994	Data
43	70.990	6.551	92.990	54.738	43.994	Data
44	70.269	6.522	92.990	54.737	43.994	Data
44	70.990	6.551	92.990	54.738	43.994	Data
45	70.269	6.522	92.990	54.737	43.994	Data
45	70.990	6.551	92.990	54.738	43.994	Data
46.5	70.328	6.438	92.987	54.743	43.996	Data
46.5	70.217	6.529	92.986	54.743	43.997	Data
48	71.293	6.532	93.006	54.742	43.997	Data
48	70.747	6.523	93.002	54.743	43.997	Data
49	71.293	6.532	93.006	54.742	43.997	Data
49	70.747	6.523	93.002	54.743	43.997	Data
50	70.747	6.523	93.002	54.743	43.997	Data
50	71.293	6.532	93.006	54.742	43.997	Data
51	70.747	6.523	93.002	54.743	43.997	Data
51	71.293	6.532	93.006	54.742	43.997	Data
52.5	70.328	6.438	92.987	54.743	43.996	Data
52.5	70.217	6.529	92.986	54.743	43.997	Data
54	71.161	6.534	92.975	54.737	44.004	Data
54	71.553	6.578	92.975	54.739	44.004	Data
55	71.161	6.534	92.975	54.737	44.004	Data
55	71.553	6.578	92.975	54.739	44.004	Data
56	71.161	6.534	92.975	54.737	44.004	Data
56	71.553	6.578	92.975	54.739	44.004	Data
57	71.161	6.534	92.975	54.737	44.004	Data
57	71.553	6.578	92.975	54.739	44.004	Data
58.5	70.217	6.529	92.986	54.743	43.997	Data
58.5	70.328	6.438	92.987	54.743	43.996	Data
60.5	70.386	6.468	92.996	54.744	44.002	Data
60.5	69.875	6.504	92.997	54.746	44.002	Data
61.75	69.875	6.504	92.997	54.746	44.002	Data
61.75	70.386	6.468	92.996	54.744	44.002	Data
63	69.875	6.504	92.997	54.746	44.002	Data
63	70.386	6.468	92.996	54.744	44.002	Data
64	69.875	6.504	92.997	54.746	44.002	Data
64	70.386	6.468	92.996	54.744	44.002	Data

Table 147: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.859	6.530	92.983	55.747	43.995	Data
8	70.984	6.536	92.982	55.746	43.996	Data
30	70.984	6.536	92.982	55.746	43.996	Data
30	70.105	6.471	92.991	55.739	44.003	Data
30	70.859	6.530	92.983	55.747	43.995	Data
30	70.717	6.503	93.005	55.741	43.997	Data
30	71.101	6.547	92.992	55.746	43.994	Data
30	70.923	6.495	92.979	55.744	44.003	Data
30	71.256	6.579	92.995	55.747	43.993	Data
30	71.038	6.503	92.993	55.739	44.002	Data
30	71.091	6.495	92.981	55.744	44.004	Data
30	71.058	6.526	93.008	55.741	43.997	Data
42	71.101	6.547	92.992	55.746	43.994	Data
42	71.256	6.579	92.995	55.747	43.993	Data
43	71.101	6.547	92.992	55.746	43.994	Data
43	71.256	6.579	92.995	55.747	43.993	Data
44	71.101	6.547	92.992	55.746	43.994	Data
44	71.256	6.579	92.995	55.747	43.993	Data
45	71.101	6.547	92.992	55.746	43.994	Data
45	71.256	6.579	92.995	55.747	43.993	Data
46.5	70.859	6.530	92.983	55.747	43.995	Data
46.5	70.984	6.536	92.982	55.746	43.996	Data
48	70.717	6.503	93.005	55.741	43.997	Data
48	71.058	6.526	93.008	55.741	43.997	Data
49	70.717	6.503	93.005	55.741	43.997	Data
49	71.058	6.526	93.008	55.741	43.997	Data
50	70.717	6.503	93.005	55.741	43.997	Data
50	71.058	6.526	93.008	55.741	43.997	Data
51	70.717	6.503	93.005	55.741	43.997	Data
51	71.058	6.526	93.008	55.741	43.997	Data
52.5	70.859	6.530	92.983	55.747	43.995	Data
52.5	70.984	6.536	92.982	55.746	43.996	Data
54	70.923	6.495	92.979	55.744	44.003	Data
54	71.091	6.495	92.981	55.744	44.004	Data
55	70.923	6.495	92.979	55.744	44.003	Data
55	71.091	6.495	92.981	55.744	44.004	Data
56	70.923	6.495	92.979	55.744	44.003	Data
56	71.091	6.495	92.981	55.744	44.004	Data
57	70.923	6.495	92.979	55.744	44.003	Data
57	71.091	6.495	92.981	55.744	44.004	Data
58.5	70.859	6.530	92.983	55.747	43.995	Data
58.5	70.984	6.536	92.982	55.746	43.996	Data
60.5	70.105	6.471	92.991	55.739	44.003	Data
60.5	71.038	6.503	92.993	55.739	44.002	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	70.105	6.471	92.991	55.739	44.003	Data
61.75	71.038	6.503	92.993	55.739	44.002	Data
63	70.105	6.471	92.991	55.739	44.003	Data
63	71.038	6.503	92.993	55.739	44.002	Data
64	70.105	6.471	92.991	55.739	44.003	Data
64	71.038	6.503	92.993	55.739	44.002	Data

Table 148: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=55.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.298	6.504	92.986	56.746	43.996	Data
8	70.827	6.492	92.984	56.746	43.996	Data
30	70.298	6.504	92.986	56.746	43.996	Data
30	69.742	6.496	92.997	56.75	44.003	Data
30	70.827	6.492	92.984	56.746	43.996	Data
30	70.211	6.489	92.999	56.75	44.004	Data
30	70.803	6.492	92.991	56.743	43.994	Data
30	70.977	6.506	92.990	56.745	43.994	Data
30	70.879	6.557	92.980	56.749	44.004	Data
30	71.290	6.605	92.981	56.749	44.004	Data
30	71.670	6.528	92.999	56.748	43.996	Data
30	71.398	6.568	93.003	56.748	43.997	Data
42	70.977	6.506	92.990	56.745	43.994	Data
42	70.803	6.492	92.991	56.743	43.994	Data
43	70.977	6.506	92.990	56.745	43.994	Data
43	70.803	6.492	92.991	56.743	43.994	Data
44	70.977	6.506	92.990	56.745	43.994	Data
44	70.803	6.492	92.991	56.743	43.994	Data
45	70.977	6.506	92.990	56.745	43.994	Data
45	70.803	6.492	92.991	56.743	43.994	Data
46.5	70.827	6.492	92.984	56.746	43.996	Data
46.5	70.298	6.504	92.986	56.746	43.996	Data
48	71.670	6.528	92.999	56.748	43.996	Data
48	71.398	6.568	93.003	56.748	43.997	Data
49	71.670	6.528	92.999	56.748	43.996	Data
49	71.398	6.568	93.003	56.748	43.997	Data
50	71.670	6.528	92.999	56.748	43.996	Data
50	71.398	6.568	93.003	56.748	43.997	Data
51	71.670	6.528	92.999	56.748	43.996	Data
51	71.398	6.568	93.003	56.748	43.997	Data
52.5	70.298	6.504	92.986	56.746	43.996	Data
52.5	70.827	6.492	92.984	56.746	43.996	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	70.879	6.557	92.980	56.749	44.004	Data
54	71.290	6.605	92.981	56.749	44.004	Data
55	70.879	6.557	92.980	56.749	44.004	Data
55	71.290	6.605	92.981	56.749	44.004	Data
56	70.879	6.557	92.980	56.749	44.004	Data
56	71.290	6.605	92.981	56.749	44.004	Data
57	70.879	6.557	92.980	56.749	44.004	Data
57	71.290	6.605	92.981	56.749	44.004	Data
58.5	70.298	6.504	92.986	56.746	43.996	Data
58.5	70.827	6.492	92.984	56.746	43.996	Data
60.5	69.742	6.496	92.997	56.75	44.003	Data
60.5	70.211	6.489	92.999	56.75	44.004	Data
61.75	69.742	6.496	92.997	56.75	44.003	Data
61.75	70.211	6.489	92.999	56.75	44.004	Data
63	69.742	6.496	92.997	56.75	44.003	Data
63	70.211	6.489	92.999	56.75	44.004	Data
64	69.742	6.496	92.997	56.75	44.003	Data
64	70.211	6.489	92.999	56.75	44.004	Data

Table 149: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.967	6.524	92.979	57.752	43.995	Data
8	70.783	6.517	92.981	57.754	43.995	Data
30	71.259	6.497	92.997	57.759	43.993	Data
30	70.967	6.524	92.979	57.752	43.995	Data
30	70.783	6.517	92.981	57.754	43.995	Data
30	70.255	6.486	92.997	57.753	44.004	Data
30	71.773	6.489	92.995	57.758	43.996	Data
30	71.683	6.527	92.989	57.755	44.005	Data
30	70.251	6.481	93.004	57.752	44.003	Data
30	71.547	6.508	92.985	57.756	44.005	Data
30	71.502	6.519	92.989	57.756	43.993	Data
30	71.549	6.549	93.006	57.757	43.996	Data
42	71.259	6.497	92.997	57.759	43.993	Data
42	71.502	6.519	92.989	57.756	43.993	Data
43	71.259	6.497	92.997	57.759	43.993	Data
43	71.502	6.519	92.989	57.756	43.993	Data
44	71.259	6.497	92.997	57.759	43.993	Data
44	71.502	6.519	92.989	57.756	43.993	Data
45	71.259	6.497	92.997	57.759	43.993	Data
45	71.502	6.519	92.989	57.756	43.993	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.783	6.517	92.981	57.754	43.995	Data
46.5	70.967	6.524	92.979	57.752	43.995	Data
48	71.773	6.489	92.995	57.758	43.996	Data
48	71.549	6.549	93.006	57.757	43.996	Data
49	71.773	6.489	92.995	57.758	43.996	Data
49	71.549	6.549	93.006	57.757	43.996	Data
50	71.773	6.489	92.995	57.758	43.996	Data
50	71.549	6.549	93.006	57.757	43.996	Data
51	71.773	6.489	92.995	57.758	43.996	Data
51	71.549	6.549	93.006	57.757	43.996	Data
52.5	70.783	6.517	92.981	57.754	43.995	Data
52.5	70.967	6.524	92.979	57.752	43.995	Data
54	71.547	6.508	92.985	57.756	44.005	Data
54	71.683	6.527	92.989	57.755	44.005	Data
55	71.547	6.508	92.985	57.756	44.005	Data
55	71.683	6.527	92.989	57.755	44.005	Data
56	71.547	6.508	92.985	57.756	44.005	Data
56	71.683	6.527	92.989	57.755	44.005	Data
57	71.547	6.508	92.985	57.756	44.005	Data
57	71.683	6.527	92.989	57.755	44.005	Data
58.5	70.783	6.517	92.981	57.754	43.995	Data
58.5	70.967	6.524	92.979	57.752	43.995	Data
60.5	70.255	6.486	92.997	57.753	44.004	Data
60.5	70.251	6.481	93.004	57.752	44.003	Data
61.75	70.255	6.486	92.997	57.753	44.004	Data
61.75	70.251	6.481	93.004	57.752	44.003	Data
63	70.255	6.486	92.997	57.753	44.004	Data
63	70.251	6.481	93.004	57.752	44.003	Data
64	70.255	6.486	92.997	57.753	44.004	Data
64	70.251	6.481	93.004	57.752	44.003	Data

Table 150: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=57.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.349	6.533	92.982	58.752	43.994	Data
8	70.476	6.488	92.979	58.753	43.994	Data
30	70.476	6.488	92.979	58.753	43.994	Data
30	71.355	6.529	92.983	58.761	43.992	Data
30	70.833	6.447	92.996	58.751	44.004	Data
30	71.325	6.520	93.005	58.755	43.996	Data
30	70.898	6.531	92.984	58.758	44.005	Data
30	70.369	6.482	92.993	58.753	44.004	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.152	6.538	92.998	58.756	43.996	Data
30	70.349	6.533	92.982	58.752	43.994	Data
30	71.099	6.583	92.980	58.758	44.005	Data
30	71.168	6.427	92.989	58.763	43.992	Data
42	71.355	6.529	92.983	58.761	43.992	Data
42	71.168	6.427	92.989	58.763	43.992	Data
43	71.355	6.529	92.983	58.761	43.992	Data
43	71.168	6.427	92.989	58.763	43.992	Data
44	71.168	6.427	92.989	58.763	43.992	Data
44	71.355	6.529	92.983	58.761	43.992	Data
45	71.168	6.427	92.989	58.763	43.992	Data
45	71.355	6.529	92.983	58.761	43.992	Data
46.5	70.476	6.488	92.979	58.753	43.994	Data
46.5	70.349	6.533	92.982	58.752	43.994	Data
48	71.325	6.520	93.005	58.755	43.996	Data
48	71.152	6.538	92.998	58.756	43.996	Data
49	71.325	6.520	93.005	58.755	43.996	Data
49	71.152	6.538	92.998	58.756	43.996	Data
50	71.325	6.520	93.005	58.755	43.996	Data
50	71.152	6.538	92.998	58.756	43.996	Data
51	71.325	6.520	93.005	58.755	43.996	Data
51	71.152	6.538	92.998	58.756	43.996	Data
52.5	70.476	6.488	92.979	58.753	43.994	Data
52.5	70.349	6.533	92.982	58.752	43.994	Data
54	71.099	6.583	92.980	58.758	44.005	Data
54	70.898	6.531	92.984	58.758	44.005	Data
55	70.898	6.531	92.984	58.758	44.005	Data
55	71.099	6.583	92.980	58.758	44.005	Data
56	70.898	6.531	92.984	58.758	44.005	Data
56	71.099	6.583	92.980	58.758	44.005	Data
57	70.898	6.531	92.984	58.758	44.005	Data
57	71.099	6.583	92.980	58.758	44.005	Data
58.5	70.476	6.488	92.979	58.753	43.994	Data
58.5	70.349	6.533	92.982	58.752	43.994	Data
60.5	70.369	6.482	92.993	58.753	44.004	Data
60.5	70.833	6.447	92.996	58.751	44.004	Data
61.75	70.369	6.482	92.993	58.753	44.004	Data
61.75	70.833	6.447	92.996	58.751	44.004	Data
63	70.369	6.482	92.993	58.753	44.004	Data
63	70.833	6.447	92.996	58.751	44.004	Data
64	70.833	6.447	92.996	58.751	44.004	Data
64	70.369	6.482	92.993	58.753	44.004	Data

Table 151: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.298	6.519	92.982	59.755	43.994	Data
8	70.405	6.530	92.983	59.754	43.993	Data
30	70.275	6.551	92.991	59.757	43.992	Data
30	70.405	6.530	92.983	59.754	43.993	Data
30	70.298	6.519	92.982	59.755	43.994	Data
30	70.607	6.499	92.996	59.753	44.004	Data
30	70.707	6.531	92.986	59.756	44.005	Data
30	71.195	6.455	92.990	59.752	44.004	Data
30	70.858	6.530	92.982	59.756	44.005	Data
30	71.114	6.506	93.008	59.76	43.994	Data
30	70.682	6.546	93.011	59.759	43.994	Data
30	70.372	6.509	92.989	59.759	43.991	Data
42	70.275	6.551	92.991	59.757	43.992	Data
42	70.372	6.509	92.989	59.759	43.991	Data
43	70.275	6.551	92.991	59.757	43.992	Data
43	70.372	6.509	92.989	59.759	43.991	Data
44	70.275	6.551	92.991	59.757	43.992	Data
44	70.372	6.509	92.989	59.759	43.991	Data
45	70.275	6.551	92.991	59.757	43.992	Data
45	70.372	6.509	92.989	59.759	43.991	Data
46.5	70.298	6.519	92.982	59.755	43.994	Data
46.5	70.405	6.530	92.983	59.754	43.993	Data
48	70.682	6.546	93.011	59.759	43.994	Data
48	71.114	6.506	93.008	59.76	43.994	Data
49	70.682	6.546	93.011	59.759	43.994	Data
49	71.114	6.506	93.008	59.76	43.994	Data
50	70.682	6.546	93.011	59.759	43.994	Data
50	71.114	6.506	93.008	59.76	43.994	Data
51	70.682	6.546	93.011	59.759	43.994	Data
51	71.114	6.506	93.008	59.76	43.994	Data
52.5	70.298	6.519	92.982	59.755	43.994	Data
52.5	70.405	6.530	92.983	59.754	43.993	Data
54	70.707	6.531	92.986	59.756	44.005	Data
54	70.858	6.530	92.982	59.756	44.005	Data
55	70.707	6.531	92.986	59.756	44.005	Data
55	70.858	6.530	92.982	59.756	44.005	Data
56	70.707	6.531	92.986	59.756	44.005	Data
56	70.858	6.530	92.982	59.756	44.005	Data
57	70.707	6.531	92.986	59.756	44.005	Data
57	70.858	6.530	92.982	59.756	44.005	Data
58.5	70.298	6.519	92.982	59.755	43.994	Data
58.5	70.405	6.530	92.983	59.754	43.993	Data
60.5	70.607	6.499	92.996	59.753	44.004	Data
60.5	71.195	6.455	92.990	59.752	44.004	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	70.607	6.499	92.996	59.753	44.004	Data
61.75	71.195	6.455	92.990	59.752	44.004	Data
63	70.607	6.499	92.996	59.753	44.004	Data
63	71.195	6.455	92.990	59.752	44.004	Data
64	71.195	6.455	92.990	59.752	44.004	Data
64	70.607	6.499	92.996	59.753	44.004	Data

Table 152: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=59.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.027	6.524	92.984	60.745	43.993	Data
8	71.031	6.487	92.981	60.746	43.994	Data
30	71.027	6.524	92.984	60.745	43.993	Data
30	70.164	6.524	92.989	60.771	43.990	Data
30	71.031	6.487	92.981	60.746	43.994	Data
30	71.720	6.551	93.009	60.767	43.993	Data
30	71.569	6.577	93.011	60.766	43.993	Data
30	71.535	6.470	92.991	60.753	44.006	Data
30	70.657	6.575	92.988	60.759	44.009	Data
30	71.495	6.548	92.989	60.759	44.008	Data
30	70.545	6.488	92.997	60.753	44.005	Data
30	70.809	6.470	92.987	60.769	43.990	Data
42	70.164	6.524	92.989	60.771	43.990	Data
42	70.809	6.470	92.987	60.769	43.990	Data
43	70.164	6.524	92.989	60.771	43.990	Data
43	70.809	6.470	92.987	60.769	43.990	Data
44	70.164	6.524	92.989	60.771	43.990	Data
44	70.809	6.470	92.987	60.769	43.990	Data
45	70.164	6.524	92.989	60.771	43.990	Data
45	70.809	6.470	92.987	60.769	43.990	Data
46.5	71.031	6.487	92.981	60.746	43.994	Data
46.5	71.027	6.524	92.984	60.745	43.993	Data
48	71.720	6.551	93.009	60.767	43.993	Data
48	71.569	6.577	93.011	60.766	43.993	Data
49	71.720	6.551	93.009	60.767	43.993	Data
49	71.569	6.577	93.011	60.766	43.993	Data
50	71.720	6.551	93.009	60.767	43.993	Data
50	71.569	6.577	93.011	60.766	43.993	Data
51	71.720	6.551	93.009	60.767	43.993	Data
51	71.569	6.577	93.011	60.766	43.993	Data
52.5	71.031	6.487	92.981	60.746	43.994	Data
52.5	71.027	6.524	92.984	60.745	43.993	Data

VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	71.495	6.548	92.989	60.759	44.008	Data
54	70.657	6.575	92.988	60.759	44.009	Data
55	71.495	6.548	92.989	60.759	44.008	Data
55	70.657	6.575	92.988	60.759	44.009	Data
56	71.495	6.548	92.989	60.759	44.008	Data
56	70.657	6.575	92.988	60.759	44.009	Data
57	71.495	6.548	92.989	60.759	44.008	Data
57	70.657	6.575	92.988	60.759	44.009	Data
58.5	71.031	6.487	92.981	60.746	43.994	Data
58.5	71.027	6.524	92.984	60.745	43.993	Data
60.5	70.545	6.488	92.997	60.753	44.005	Data
60.5	71.535	6.470	92.991	60.753	44.006	Data
61.75	70.545	6.488	92.997	60.753	44.005	Data
61.75	71.535	6.470	92.991	60.753	44.006	Data
63	70.545	6.488	92.997	60.753	44.005	Data
63	71.535	6.470	92.991	60.753	44.006	Data
64	70.545	6.488	92.997	60.753	44.005	Data
64	71.535	6.470	92.991	60.753	44.006	Data

Table 153: VG horizontal sweep: q=70 RO-tip VG 44 (in) VG AoA 4 +6ft — VG at span y=60.5 (in)

D.12. Horizontal VG vortex sweep at height z=44.5, q=70, α_{VG}=4, α_W=7, RO-tip+6ft

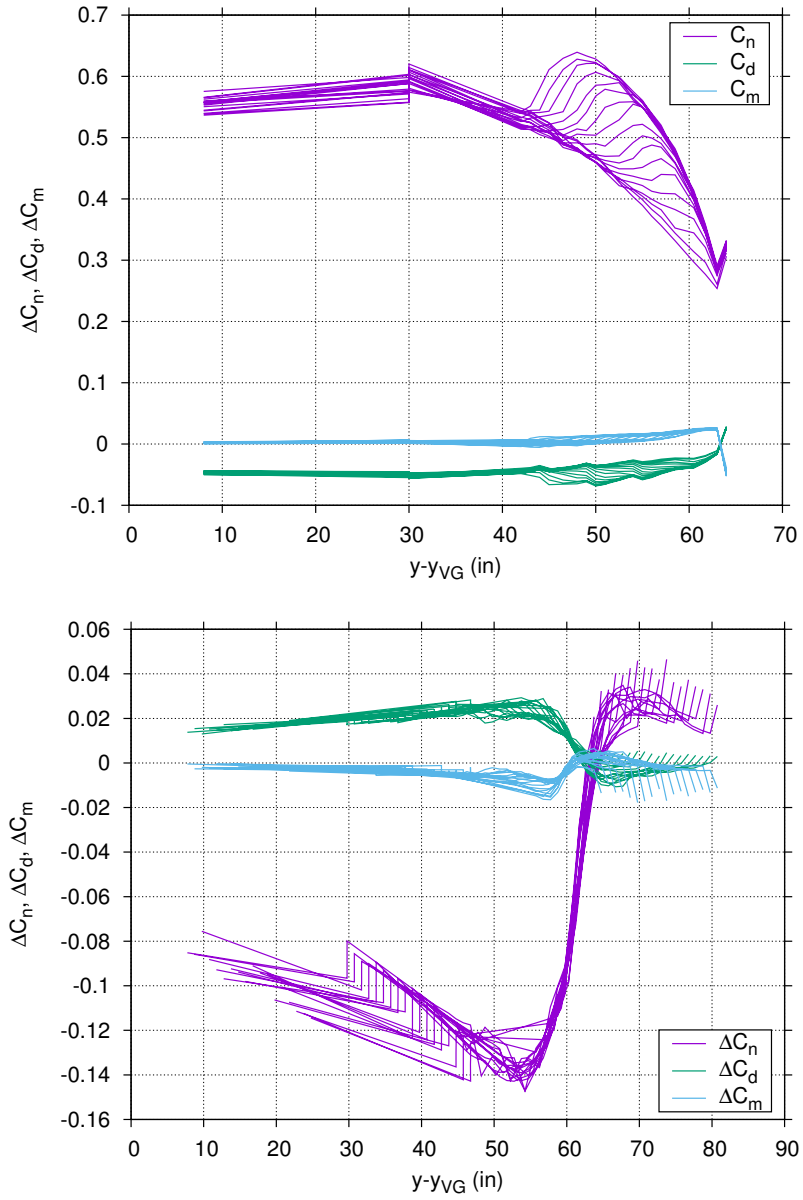

Figure 65. VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — (Data)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.648	6.507	92.981	43.747	44.505	Data
8	69.288	6.514	92.986	43.747	44.505	Data
30	69.288	6.514	92.986	43.747	44.505	Data
30	69.700	6.536	92.986	43.741	44.499	Data
30	69.040	6.478	92.995	43.758	44.501	Data
30	68.755	6.548	92.991	43.758	44.501	Data
30	69.012	6.508	92.999	43.751	44.502	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.648	6.507	92.981	43.747	44.505	Data
30	70.128	6.579	92.986	43.742	44.499	Data
30	69.931	6.508	92.993	43.752	44.502	Data
30	69.330	6.597	92.994	43.759	44.501	Data
30	69.529	6.531	92.990	43.761	44.502	Data
42	69.040	6.478	92.995	43.758	44.501	Data
42	68.755	6.548	92.991	43.758	44.501	Data
43	68.755	6.548	92.991	43.758	44.501	Data
43	69.040	6.478	92.995	43.758	44.501	Data
44	68.755	6.548	92.991	43.758	44.501	Data
44	69.040	6.478	92.995	43.758	44.501	Data
45	68.755	6.548	92.991	43.758	44.501	Data
45	69.040	6.478	92.995	43.758	44.501	Data
46.5	69.288	6.514	92.986	43.747	44.505	Data
46.5	69.648	6.507	92.981	43.747	44.505	Data
48	69.529	6.531	92.990	43.761	44.502	Data
48	69.330	6.597	92.994	43.759	44.501	Data
49	69.529	6.531	92.990	43.761	44.502	Data
49	69.330	6.597	92.994	43.759	44.501	Data
50	69.529	6.531	92.990	43.761	44.502	Data
50	69.330	6.597	92.994	43.759	44.501	Data
51	69.529	6.531	92.990	43.761	44.502	Data
51	69.330	6.597	92.994	43.759	44.501	Data
52.5	69.288	6.514	92.986	43.747	44.505	Data
52.5	69.648	6.507	92.981	43.747	44.505	Data
54	69.700	6.536	92.986	43.741	44.499	Data
54	70.128	6.579	92.986	43.742	44.499	Data
55	69.700	6.536	92.986	43.741	44.499	Data
55	70.128	6.579	92.986	43.742	44.499	Data
56	69.700	6.536	92.986	43.741	44.499	Data
56	70.128	6.579	92.986	43.742	44.499	Data
57	69.700	6.536	92.986	43.741	44.499	Data
57	70.128	6.579	92.986	43.742	44.499	Data
58.5	69.288	6.514	92.986	43.747	44.505	Data
58.5	69.648	6.507	92.981	43.747	44.505	Data
60.5	69.931	6.508	92.993	43.752	44.502	Data
60.5	69.012	6.508	92.999	43.751	44.502	Data
61.75	69.931	6.508	92.993	43.752	44.502	Data
61.75	69.012	6.508	92.999	43.751	44.502	Data
63	69.931	6.508	92.993	43.752	44.502	Data
63	69.012	6.508	92.999	43.751	44.502	Data
64	69.012	6.508	92.999	43.751	44.502	Data
64	69.931	6.508	92.993	43.752	44.502	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 154: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.353	6.495	92.981	44.746	44.505	Data
8	69.006	6.521	92.984	44.746	44.504	Data
30	69.723	6.475	92.996	44.746	44.502	Data
30	69.252	6.545	92.995	44.745	44.502	Data
30	69.240	6.476	92.990	44.75	44.501	Data
30	69.006	6.521	92.984	44.746	44.504	Data
30	69.353	6.495	92.981	44.746	44.505	Data
30	69.166	6.489	92.996	44.752	44.501	Data
30	70.123	6.543	92.989	44.746	44.502	Data
30	69.918	6.572	92.983	44.747	44.498	Data
30	69.298	6.586	92.998	44.746	44.501	Data
30	70.201	6.546	92.982	44.747	44.498	Data
42	69.240	6.476	92.990	44.75	44.501	Data
42	69.166	6.489	92.996	44.752	44.501	Data
43	69.240	6.476	92.990	44.75	44.501	Data
43	69.166	6.489	92.996	44.752	44.501	Data
44	69.240	6.476	92.990	44.75	44.501	Data
44	69.166	6.489	92.996	44.752	44.501	Data
45	69.240	6.476	92.990	44.75	44.501	Data
45	69.166	6.489	92.996	44.752	44.501	Data
46.5	69.353	6.495	92.981	44.746	44.505	Data
46.5	69.006	6.521	92.984	44.746	44.504	Data
48	70.123	6.543	92.989	44.746	44.502	Data
48	69.298	6.586	92.998	44.746	44.501	Data
49	70.123	6.543	92.989	44.746	44.502	Data
49	69.298	6.586	92.998	44.746	44.501	Data
50	70.123	6.543	92.989	44.746	44.502	Data
50	69.298	6.586	92.998	44.746	44.501	Data
51	70.123	6.543	92.989	44.746	44.502	Data
51	69.298	6.586	92.998	44.746	44.501	Data
52.5	69.353	6.495	92.981	44.746	44.505	Data
52.5	69.006	6.521	92.984	44.746	44.504	Data
54	70.201	6.546	92.982	44.747	44.498	Data
54	69.918	6.572	92.983	44.747	44.498	Data
55	70.201	6.546	92.982	44.747	44.498	Data
55	69.918	6.572	92.983	44.747	44.498	Data
56	70.201	6.546	92.982	44.747	44.498	Data
56	69.918	6.572	92.983	44.747	44.498	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	70.201	6.546	92.982	44.747	44.498	Data
57	69.918	6.572	92.983	44.747	44.498	Data
58.5	69.353	6.495	92.981	44.746	44.505	Data
58.5	69.006	6.521	92.984	44.746	44.504	Data
60.5	69.723	6.475	92.996	44.746	44.502	Data
60.5	69.252	6.545	92.995	44.745	44.502	Data
61.75	69.723	6.475	92.996	44.746	44.502	Data
61.75	69.252	6.545	92.995	44.745	44.502	Data
63	69.723	6.475	92.996	44.746	44.502	Data
63	69.252	6.545	92.995	44.745	44.502	Data
64	69.723	6.475	92.996	44.746	44.502	Data
64	69.252	6.545	92.995	44.745	44.502	Data

Table 155: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.715	6.438	92.977	45.744	44.504	Data
8	69.852	6.450	92.979	45.746	44.505	Data
30	69.852	6.450	92.979	45.746	44.505	Data
30	70.060	6.536	92.994	45.74	44.501	Data
30	69.715	6.438	92.977	45.744	44.504	Data
30	69.000	6.533	92.999	45.744	44.500	Data
30	70.058	6.521	92.992	45.742	44.501	Data
30	69.372	6.511	92.994	45.74	44.502	Data
30	69.674	6.540	92.980	45.74	44.498	Data
30	69.330	6.456	92.984	45.742	44.501	Data
30	70.255	6.571	92.986	45.74	44.498	Data
30	69.819	6.573	92.994	45.741	44.502	Data
42	69.000	6.533	92.999	45.744	44.500	Data
42	69.330	6.456	92.984	45.742	44.501	Data
43	69.000	6.533	92.999	45.744	44.500	Data
43	69.330	6.456	92.984	45.742	44.501	Data
44	69.000	6.533	92.999	45.744	44.500	Data
44	69.330	6.456	92.984	45.742	44.501	Data
45	69.330	6.456	92.984	45.742	44.501	Data
45	69.000	6.533	92.999	45.744	44.500	Data
46.5	69.852	6.450	92.979	45.746	44.505	Data
46.5	69.715	6.438	92.977	45.744	44.504	Data
48	69.819	6.573	92.994	45.741	44.502	Data
48	70.060	6.536	92.994	45.74	44.501	Data
49	69.819	6.573	92.994	45.741	44.502	Data
49	70.060	6.536	92.994	45.74	44.501	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	69.819	6.573	92.994	45.741	44.502	Data
50	70.060	6.536	92.994	45.74	44.501	Data
51	69.819	6.573	92.994	45.741	44.502	Data
51	70.060	6.536	92.994	45.74	44.501	Data
52.5	69.852	6.450	92.979	45.746	44.505	Data
52.5	69.715	6.438	92.977	45.744	44.504	Data
54	69.674	6.540	92.980	45.74	44.498	Data
54	70.255	6.571	92.986	45.74	44.498	Data
55	69.674	6.540	92.980	45.74	44.498	Data
55	70.255	6.571	92.986	45.74	44.498	Data
56	69.674	6.540	92.980	45.74	44.498	Data
56	70.255	6.571	92.986	45.74	44.498	Data
57	69.674	6.540	92.980	45.74	44.498	Data
57	70.255	6.571	92.986	45.74	44.498	Data
58.5	69.852	6.450	92.979	45.746	44.505	Data
58.5	69.715	6.438	92.977	45.744	44.504	Data
60.5	70.058	6.521	92.992	45.742	44.501	Data
60.5	69.372	6.511	92.994	45.74	44.502	Data
61.75	70.058	6.521	92.992	45.742	44.501	Data
61.75	69.372	6.511	92.994	45.74	44.502	Data
63	70.058	6.521	92.992	45.742	44.501	Data
63	69.372	6.511	92.994	45.74	44.502	Data
64	70.058	6.521	92.992	45.742	44.501	Data
64	69.372	6.511	92.994	45.74	44.502	Data

Table 156: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=45.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.731	6.484	92.979	46.746	44.505	Data
8	69.475	6.500	92.980	46.745	44.504	Data
30	69.731	6.484	92.979	46.746	44.505	Data
30	69.475	6.500	92.980	46.745	44.504	Data
30	69.716	6.604	92.991	46.74	44.501	Data
30	69.957	6.512	93.003	46.745	44.502	Data
30	69.948	6.571	92.981	46.742	44.499	Data
30	69.412	6.551	92.991	46.741	44.502	Data
30	70.143	6.476	93.001	46.743	44.502	Data
30	70.097	6.529	92.992	46.74	44.501	Data
30	69.713	6.565	92.987	46.743	44.498	Data
30	70.301	6.576	92.995	46.739	44.502	Data
42	69.716	6.604	92.991	46.74	44.501	Data
42	70.097	6.529	92.992	46.74	44.501	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	69.716	6.604	92.991	46.74	44.501	Data
43	70.097	6.529	92.992	46.74	44.501	Data
44	69.716	6.604	92.991	46.74	44.501	Data
44	70.097	6.529	92.992	46.74	44.501	Data
45	69.716	6.604	92.991	46.74	44.501	Data
45	70.097	6.529	92.992	46.74	44.501	Data
46.5	69.731	6.484	92.979	46.746	44.505	Data
46.5	69.475	6.500	92.980	46.745	44.504	Data
48	70.301	6.576	92.995	46.739	44.502	Data
48	69.412	6.551	92.991	46.741	44.502	Data
49	70.301	6.576	92.995	46.739	44.502	Data
49	69.412	6.551	92.991	46.741	44.502	Data
50	70.301	6.576	92.995	46.739	44.502	Data
50	69.412	6.551	92.991	46.741	44.502	Data
51	70.301	6.576	92.995	46.739	44.502	Data
51	69.412	6.551	92.991	46.741	44.502	Data
52.5	69.731	6.484	92.979	46.746	44.505	Data
52.5	69.475	6.500	92.980	46.745	44.504	Data
54	69.713	6.565	92.987	46.743	44.498	Data
54	69.948	6.571	92.981	46.742	44.499	Data
55	69.713	6.565	92.987	46.743	44.498	Data
55	69.948	6.571	92.981	46.742	44.499	Data
56	69.713	6.565	92.987	46.743	44.498	Data
56	69.948	6.571	92.981	46.742	44.499	Data
57	69.713	6.565	92.987	46.743	44.498	Data
57	69.948	6.571	92.981	46.742	44.499	Data
58.5	69.731	6.484	92.979	46.746	44.505	Data
58.5	69.475	6.500	92.980	46.745	44.504	Data
60.5	69.957	6.512	93.003	46.745	44.502	Data
60.5	70.143	6.476	93.001	46.743	44.502	Data
61.75	69.957	6.512	93.003	46.745	44.502	Data
61.75	70.143	6.476	93.001	46.743	44.502	Data
63	69.957	6.512	93.003	46.745	44.502	Data
63	70.143	6.476	93.001	46.743	44.502	Data
64	70.143	6.476	93.001	46.743	44.502	Data
64	69.957	6.512	93.003	46.745	44.502	Data

Table 157: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.162	6.505	92.985	47.748	44.504	Data
8	69.251	6.524	92.980	47.746	44.505	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.473	6.553	92.996	47.751	44.502	Data
30	69.075	6.542	92.990	47.747	44.500	Data
30	69.162	6.505	92.985	47.748	44.504	Data
30	68.480	6.528	92.989	47.747	44.500	Data
30	69.251	6.524	92.980	47.746	44.505	Data
30	69.565	6.514	93.002	47.743	44.501	Data
30	69.352	6.487	93.000	47.742	44.502	Data
30	69.990	6.552	92.989	47.746	44.498	Data
30	68.632	6.558	92.999	47.75	44.502	Data
30	69.917	6.554	92.981	47.745	44.498	Data
42	69.075	6.542	92.990	47.747	44.500	Data
42	68.480	6.528	92.989	47.747	44.500	Data
43	69.075	6.542	92.990	47.747	44.500	Data
43	68.480	6.528	92.989	47.747	44.500	Data
44	69.075	6.542	92.990	47.747	44.500	Data
44	68.480	6.528	92.989	47.747	44.500	Data
45	69.075	6.542	92.990	47.747	44.500	Data
45	68.480	6.528	92.989	47.747	44.500	Data
46.5	69.251	6.524	92.980	47.746	44.505	Data
46.5	69.162	6.505	92.985	47.748	44.504	Data
48	68.473	6.553	92.996	47.751	44.502	Data
48	68.632	6.558	92.999	47.75	44.502	Data
49	68.473	6.553	92.996	47.751	44.502	Data
49	68.632	6.558	92.999	47.75	44.502	Data
50	68.473	6.553	92.996	47.751	44.502	Data
50	68.632	6.558	92.999	47.75	44.502	Data
51	68.473	6.553	92.996	47.751	44.502	Data
51	68.632	6.558	92.999	47.75	44.502	Data
52.5	69.251	6.524	92.980	47.746	44.505	Data
52.5	69.162	6.505	92.985	47.748	44.504	Data
54	69.990	6.552	92.989	47.746	44.498	Data
54	69.917	6.554	92.981	47.745	44.498	Data
55	69.990	6.552	92.989	47.746	44.498	Data
55	69.917	6.554	92.981	47.745	44.498	Data
56	69.990	6.552	92.989	47.746	44.498	Data
56	69.917	6.554	92.981	47.745	44.498	Data
57	69.917	6.554	92.981	47.745	44.498	Data
57	69.990	6.552	92.989	47.746	44.498	Data
58.5	69.251	6.524	92.980	47.746	44.505	Data
58.5	69.162	6.505	92.985	47.748	44.504	Data
60.5	69.352	6.487	93.000	47.742	44.502	Data
60.5	69.565	6.514	93.002	47.743	44.501	Data
61.75	69.352	6.487	93.000	47.742	44.502	Data
61.75	69.565	6.514	93.002	47.743	44.501	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	69.352	6.487	93.000	47.742	44.502	Data
63	69.565	6.514	93.002	47.743	44.501	Data
64	69.565	6.514	93.002	47.743	44.501	Data
64	69.352	6.487	93.000	47.742	44.502	Data

Table 158: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=47.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.445	6.470	92.983	48.744	44.504	Data
8	69.072	6.527	92.975	48.743	44.504	Data
30	68.445	6.470	92.983	48.744	44.504	Data
30	69.407	6.514	92.994	48.75	44.501	Data
30	68.865	6.479	92.980	48.756	44.500	Data
30	69.072	6.527	92.975	48.743	44.504	Data
30	69.748	6.487	93.000	48.749	44.501	Data
30	70.138	6.569	92.984	48.747	44.498	Data
30	70.099	6.491	92.998	48.751	44.502	Data
30	69.098	6.479	92.987	48.755	44.499	Data
30	68.688	6.565	93.000	48.75	44.501	Data
30	69.648	6.554	92.985	48.749	44.498	Data
42	68.865	6.479	92.980	48.756	44.500	Data
42	69.098	6.479	92.987	48.755	44.499	Data
43	68.865	6.479	92.980	48.756	44.500	Data
43	69.098	6.479	92.987	48.755	44.499	Data
44	68.865	6.479	92.980	48.756	44.500	Data
44	69.098	6.479	92.987	48.755	44.499	Data
45	68.865	6.479	92.980	48.756	44.500	Data
45	69.098	6.479	92.987	48.755	44.499	Data
46.5	68.445	6.470	92.983	48.744	44.504	Data
46.5	69.072	6.527	92.975	48.743	44.504	Data
48	69.407	6.514	92.994	48.75	44.501	Data
48	68.688	6.565	93.000	48.75	44.501	Data
49	68.688	6.565	93.000	48.75	44.501	Data
49	69.407	6.514	92.994	48.75	44.501	Data
50	68.688	6.565	93.000	48.75	44.501	Data
50	69.407	6.514	92.994	48.75	44.501	Data
51	68.688	6.565	93.000	48.75	44.501	Data
51	69.407	6.514	92.994	48.75	44.501	Data
52.5	69.072	6.527	92.975	48.743	44.504	Data
52.5	68.445	6.470	92.983	48.744	44.504	Data
54	70.138	6.569	92.984	48.747	44.498	Data
54	69.648	6.554	92.985	48.749	44.498	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	70.138	6.569	92.984	48.747	44.498	Data
55	69.648	6.554	92.985	48.749	44.498	Data
56	70.138	6.569	92.984	48.747	44.498	Data
56	69.648	6.554	92.985	48.749	44.498	Data
57	70.138	6.569	92.984	48.747	44.498	Data
57	69.648	6.554	92.985	48.749	44.498	Data
58.5	68.445	6.470	92.983	48.744	44.504	Data
58.5	69.072	6.527	92.975	48.743	44.504	Data
60.5	70.099	6.491	92.998	48.751	44.502	Data
60.5	69.748	6.487	93.000	48.749	44.501	Data
61.75	70.099	6.491	92.998	48.751	44.502	Data
61.75	69.748	6.487	93.000	48.749	44.501	Data
63	70.099	6.491	92.998	48.751	44.502	Data
63	69.748	6.487	93.000	48.749	44.501	Data
64	69.748	6.487	93.000	48.749	44.501	Data
64	70.099	6.491	92.998	48.751	44.502	Data

Table 159: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.557	6.449	92.970	49.748	44.505	Data
8	69.505	6.471	92.975	49.748	44.504	Data
30	69.557	6.449	92.970	49.748	44.505	Data
30	69.273	6.603	92.990	49.758	44.501	Data
30	70.526	6.459	92.994	49.753	44.502	Data
30	69.883	6.463	92.986	49.758	44.499	Data
30	68.851	6.498	92.985	49.758	44.500	Data
30	70.463	6.583	92.978	49.752	44.498	Data
30	69.505	6.471	92.975	49.748	44.504	Data
30	70.331	6.561	92.985	49.75	44.498	Data
30	69.954	6.549	93.001	49.753	44.501	Data
30	69.999	6.516	92.996	49.76	44.501	Data
42	69.883	6.463	92.986	49.758	44.499	Data
42	68.851	6.498	92.985	49.758	44.500	Data
43	69.883	6.463	92.986	49.758	44.499	Data
43	68.851	6.498	92.985	49.758	44.500	Data
44	69.883	6.463	92.986	49.758	44.499	Data
44	68.851	6.498	92.985	49.758	44.500	Data
45	69.883	6.463	92.986	49.758	44.499	Data
45	68.851	6.498	92.985	49.758	44.500	Data
46.5	69.557	6.449	92.970	49.748	44.505	Data
46.5	69.505	6.471	92.975	49.748	44.504	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	69.273	6.603	92.990	49.758	44.501	Data
48	69.999	6.516	92.996	49.76	44.501	Data
49	69.273	6.603	92.990	49.758	44.501	Data
49	69.999	6.516	92.996	49.76	44.501	Data
50	69.999	6.516	92.996	49.76	44.501	Data
50	69.273	6.603	92.990	49.758	44.501	Data
51	69.999	6.516	92.996	49.76	44.501	Data
51	69.273	6.603	92.990	49.758	44.501	Data
52.5	69.557	6.449	92.970	49.748	44.505	Data
52.5	69.505	6.471	92.975	49.748	44.504	Data
54	70.463	6.583	92.978	49.752	44.498	Data
54	70.331	6.561	92.985	49.75	44.498	Data
55	70.463	6.583	92.978	49.752	44.498	Data
55	70.331	6.561	92.985	49.75	44.498	Data
56	70.463	6.583	92.978	49.752	44.498	Data
56	70.331	6.561	92.985	49.75	44.498	Data
57	70.463	6.583	92.978	49.752	44.498	Data
57	70.331	6.561	92.985	49.75	44.498	Data
58.5	69.557	6.449	92.970	49.748	44.505	Data
58.5	69.505	6.471	92.975	49.748	44.504	Data
60.5	70.526	6.459	92.994	49.753	44.502	Data
60.5	69.954	6.549	93.001	49.753	44.501	Data
61.75	70.526	6.459	92.994	49.753	44.502	Data
61.75	69.954	6.549	93.001	49.753	44.501	Data
63	70.526	6.459	92.994	49.753	44.502	Data
63	69.954	6.549	93.001	49.753	44.501	Data
64	70.526	6.459	92.994	49.753	44.502	Data
64	69.954	6.549	93.001	49.753	44.501	Data

Table 160: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=49.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.339	6.504	92.983	50.747	44.504	Data
8	68.852	6.474	92.976	50.747	44.504	Data
30	69.619	6.535	92.989	50.756	44.500	Data
30	69.673	6.550	92.988	50.757	44.500	Data
30	70.772	6.563	92.983	50.753	44.498	Data
30	68.852	6.474	92.976	50.747	44.504	Data
30	69.666	6.506	92.999	50.748	44.501	Data
30	69.185	6.549	93.005	50.751	44.501	Data
30	69.109	6.539	92.990	50.752	44.501	Data
30	70.327	6.500	92.997	50.748	44.501	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.997	6.556	92.979	50.752	44.498	Data
30	68.339	6.504	92.983	50.747	44.504	Data
42	69.619	6.535	92.989	50.756	44.500	Data
42	69.673	6.550	92.988	50.757	44.500	Data
43	69.619	6.535	92.989	50.756	44.500	Data
43	69.673	6.550	92.988	50.757	44.500	Data
44	69.619	6.535	92.989	50.756	44.500	Data
44	69.673	6.550	92.988	50.757	44.500	Data
45	69.619	6.535	92.989	50.756	44.500	Data
45	69.673	6.550	92.988	50.757	44.500	Data
46.5	68.852	6.474	92.976	50.747	44.504	Data
46.5	68.339	6.504	92.983	50.747	44.504	Data
48	69.109	6.539	92.990	50.752	44.501	Data
48	69.185	6.549	93.005	50.751	44.501	Data
49	69.109	6.539	92.990	50.752	44.501	Data
49	69.185	6.549	93.005	50.751	44.501	Data
50	69.109	6.539	92.990	50.752	44.501	Data
50	69.185	6.549	93.005	50.751	44.501	Data
51	69.109	6.539	92.990	50.752	44.501	Data
51	69.185	6.549	93.005	50.751	44.501	Data
52.5	68.339	6.504	92.983	50.747	44.504	Data
52.5	68.852	6.474	92.976	50.747	44.504	Data
54	70.772	6.563	92.983	50.753	44.498	Data
54	70.997	6.556	92.979	50.752	44.498	Data
55	70.772	6.563	92.983	50.753	44.498	Data
55	70.997	6.556	92.979	50.752	44.498	Data
56	70.772	6.563	92.983	50.753	44.498	Data
56	70.997	6.556	92.979	50.752	44.498	Data
57	70.772	6.563	92.983	50.753	44.498	Data
57	70.997	6.556	92.979	50.752	44.498	Data
58.5	68.339	6.504	92.983	50.747	44.504	Data
58.5	68.852	6.474	92.976	50.747	44.504	Data
60.5	70.327	6.500	92.997	50.748	44.501	Data
60.5	69.666	6.506	92.999	50.748	44.501	Data
61.75	70.327	6.500	92.997	50.748	44.501	Data
61.75	69.666	6.506	92.999	50.748	44.501	Data
63	70.327	6.500	92.997	50.748	44.501	Data
63	69.666	6.506	92.999	50.748	44.501	Data
64	70.327	6.500	92.997	50.748	44.501	Data
64	69.666	6.506	92.999	50.748	44.501	Data

Table 161: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.529	6.447	92.975	51.75	44.504	Data
8	69.238	6.464	92.979	51.75	44.504	Data
30	69.529	6.447	92.975	51.75	44.504	Data
30	69.571	6.489	92.992	51.75	44.500	Data
30	70.081	6.514	92.992	51.747	44.501	Data
30	70.424	6.511	92.996	51.748	44.501	Data
30	69.238	6.464	92.979	51.75	44.504	Data
30	69.951	6.545	92.990	51.752	44.499	Data
30	71.174	6.552	92.973	51.747	44.498	Data
30	69.531	6.568	93.004	51.755	44.501	Data
30	69.358	6.632	93.003	51.755	44.500	Data
30	70.439	6.612	92.974	51.747	44.499	Data
42	69.951	6.545	92.990	51.752	44.499	Data
42	69.571	6.489	92.992	51.75	44.500	Data
43	69.951	6.545	92.990	51.752	44.499	Data
43	69.571	6.489	92.992	51.75	44.500	Data
44	69.951	6.545	92.990	51.752	44.499	Data
44	69.571	6.489	92.992	51.75	44.500	Data
45	69.951	6.545	92.990	51.752	44.499	Data
45	69.571	6.489	92.992	51.75	44.500	Data
46.5	69.529	6.447	92.975	51.75	44.504	Data
46.5	69.238	6.464	92.979	51.75	44.504	Data
48	69.531	6.568	93.004	51.755	44.501	Data
48	69.358	6.632	93.003	51.755	44.500	Data
49	69.531	6.568	93.004	51.755	44.501	Data
49	69.358	6.632	93.003	51.755	44.500	Data
50	69.531	6.568	93.004	51.755	44.501	Data
50	69.358	6.632	93.003	51.755	44.500	Data
51	69.531	6.568	93.004	51.755	44.501	Data
51	69.358	6.632	93.003	51.755	44.500	Data
52.5	69.529	6.447	92.975	51.75	44.504	Data
52.5	69.238	6.464	92.979	51.75	44.504	Data
54	71.174	6.552	92.973	51.747	44.498	Data
54	70.439	6.612	92.974	51.747	44.499	Data
55	71.174	6.552	92.973	51.747	44.498	Data
55	70.439	6.612	92.974	51.747	44.499	Data
56	71.174	6.552	92.973	51.747	44.498	Data
56	70.439	6.612	92.974	51.747	44.499	Data
57	71.174	6.552	92.973	51.747	44.498	Data
57	70.439	6.612	92.974	51.747	44.499	Data
58.5	69.529	6.447	92.975	51.75	44.504	Data
58.5	69.238	6.464	92.979	51.75	44.504	Data
60.5	70.424	6.511	92.996	51.748	44.501	Data
60.5	70.081	6.514	92.992	51.747	44.501	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	70.424	6.511	92.996	51.748	44.501	Data
61.75	70.081	6.514	92.992	51.747	44.501	Data
63	70.424	6.511	92.996	51.748	44.501	Data
63	70.081	6.514	92.992	51.747	44.501	Data
64	70.081	6.514	92.992	51.747	44.501	Data
64	70.424	6.511	92.996	51.748	44.501	Data

Table 162: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=51.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.315	6.461	92.978	52.748	44.505	Data
8	69.546	6.518	92.975	52.747	44.504	Data
30	69.546	6.518	92.975	52.747	44.504	Data
30	69.315	6.461	92.978	52.748	44.505	Data
30	69.541	6.580	92.985	52.754	44.500	Data
30	68.998	6.525	93.007	52.751	44.500	Data
30	71.277	6.436	92.991	52.742	44.501	Data
30	69.633	6.499	92.986	52.754	44.499	Data
30	69.073	6.589	93.006	52.75	44.501	Data
30	70.290	6.512	92.995	52.741	44.501	Data
30	70.247	6.554	92.974	52.747	44.498	Data
30	71.001	6.590	92.977	52.747	44.499	Data
42	69.541	6.580	92.985	52.754	44.500	Data
42	69.633	6.499	92.986	52.754	44.499	Data
43	69.541	6.580	92.985	52.754	44.500	Data
43	69.633	6.499	92.986	52.754	44.499	Data
44	69.541	6.580	92.985	52.754	44.500	Data
44	69.633	6.499	92.986	52.754	44.499	Data
45	69.541	6.580	92.985	52.754	44.500	Data
45	69.633	6.499	92.986	52.754	44.499	Data
46.5	69.546	6.518	92.975	52.747	44.504	Data
46.5	69.315	6.461	92.978	52.748	44.505	Data
48	69.073	6.589	93.006	52.75	44.501	Data
48	68.998	6.525	93.007	52.751	44.500	Data
49	69.073	6.589	93.006	52.75	44.501	Data
49	68.998	6.525	93.007	52.751	44.500	Data
50	69.073	6.589	93.006	52.75	44.501	Data
50	68.998	6.525	93.007	52.751	44.500	Data
51	69.073	6.589	93.006	52.75	44.501	Data
51	68.998	6.525	93.007	52.751	44.500	Data
52.5	69.546	6.518	92.975	52.747	44.504	Data
52.5	69.315	6.461	92.978	52.748	44.505	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	71.001	6.590	92.977	52.747	44.499	Data
54	70.247	6.554	92.974	52.747	44.498	Data
55	71.001	6.590	92.977	52.747	44.499	Data
55	70.247	6.554	92.974	52.747	44.498	Data
56	71.001	6.590	92.977	52.747	44.499	Data
56	70.247	6.554	92.974	52.747	44.498	Data
57	71.001	6.590	92.977	52.747	44.499	Data
57	70.247	6.554	92.974	52.747	44.498	Data
58.5	69.315	6.461	92.978	52.748	44.505	Data
58.5	69.546	6.518	92.975	52.747	44.504	Data
60.5	71.277	6.436	92.991	52.742	44.501	Data
60.5	70.290	6.512	92.995	52.741	44.501	Data
61.75	71.277	6.436	92.991	52.742	44.501	Data
61.75	70.290	6.512	92.995	52.741	44.501	Data
63	71.277	6.436	92.991	52.742	44.501	Data
63	70.290	6.512	92.995	52.741	44.501	Data
64	71.277	6.436	92.991	52.742	44.501	Data
64	70.290	6.512	92.995	52.741	44.501	Data

Table 163: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.084	6.486	92.979	53.744	44.505	Data
8	69.460	6.501	92.979	53.743	44.504	Data
30	70.579	6.505	92.997	53.753	44.500	Data
30	70.084	6.486	92.979	53.744	44.505	Data
30	70.414	6.544	92.983	53.747	44.500	Data
30	70.018	6.529	92.997	53.747	44.499	Data
30	69.460	6.501	92.979	53.743	44.504	Data
30	71.330	6.564	92.979	53.738	44.499	Data
30	70.021	6.511	92.991	53.745	44.499	Data
30	70.939	6.604	92.983	53.736	44.498	Data
30	69.202	6.555	92.995	53.748	44.500	Data
30	70.197	6.504	92.994	53.753	44.501	Data
42	70.021	6.511	92.991	53.745	44.499	Data
42	70.414	6.544	92.983	53.747	44.500	Data
43	70.021	6.511	92.991	53.745	44.499	Data
43	70.414	6.544	92.983	53.747	44.500	Data
44	70.021	6.511	92.991	53.745	44.499	Data
44	70.414	6.544	92.983	53.747	44.500	Data
45	70.021	6.511	92.991	53.745	44.499	Data
45	70.414	6.544	92.983	53.747	44.500	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.084	6.486	92.979	53.744	44.505	Data
46.5	69.460	6.501	92.979	53.743	44.504	Data
48	70.018	6.529	92.997	53.747	44.499	Data
48	69.202	6.555	92.995	53.748	44.500	Data
49	70.018	6.529	92.997	53.747	44.499	Data
49	69.202	6.555	92.995	53.748	44.500	Data
50	70.018	6.529	92.997	53.747	44.499	Data
50	69.202	6.555	92.995	53.748	44.500	Data
51	70.018	6.529	92.997	53.747	44.499	Data
51	69.202	6.555	92.995	53.748	44.500	Data
52.5	70.084	6.486	92.979	53.744	44.505	Data
52.5	69.460	6.501	92.979	53.743	44.504	Data
54	70.939	6.604	92.983	53.736	44.498	Data
54	71.330	6.564	92.979	53.738	44.499	Data
55	70.939	6.604	92.983	53.736	44.498	Data
55	71.330	6.564	92.979	53.738	44.499	Data
56	70.939	6.604	92.983	53.736	44.498	Data
56	71.330	6.564	92.979	53.738	44.499	Data
57	70.939	6.604	92.983	53.736	44.498	Data
57	71.330	6.564	92.979	53.738	44.499	Data
58.5	70.084	6.486	92.979	53.744	44.505	Data
58.5	69.460	6.501	92.979	53.743	44.504	Data
60.5	70.197	6.504	92.994	53.753	44.501	Data
60.5	70.579	6.505	92.997	53.753	44.500	Data
61.75	70.197	6.504	92.994	53.753	44.501	Data
61.75	70.579	6.505	92.997	53.753	44.500	Data
63	70.197	6.504	92.994	53.753	44.501	Data
63	70.579	6.505	92.997	53.753	44.500	Data
64	70.197	6.504	92.994	53.753	44.501	Data
64	70.579	6.505	92.997	53.753	44.500	Data

Table 164: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=53.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.371	6.534	92.974	54.745	44.505	Data
8	69.387	6.534	92.981	54.741	44.505	Data
30	69.387	6.534	92.981	54.741	44.505	Data
30	70.322	6.536	92.984	54.75	44.500	Data
30	70.571	6.472	92.989	54.738	44.500	Data
30	69.371	6.534	92.974	54.745	44.505	Data
30	70.397	6.527	92.982	54.743	44.498	Data
30	70.228	6.519	92.990	54.74	44.500	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.102	6.534	92.983	54.744	44.499	Data
30	70.115	6.492	92.995	54.75	44.500	Data
30	70.941	6.492	92.994	54.737	44.500	Data
30	70.230	6.518	92.990	54.739	44.500	Data
42	70.115	6.492	92.995	54.75	44.500	Data
42	70.322	6.536	92.984	54.75	44.500	Data
43	70.115	6.492	92.995	54.75	44.500	Data
43	70.322	6.536	92.984	54.75	44.500	Data
44	70.115	6.492	92.995	54.75	44.500	Data
44	70.322	6.536	92.984	54.75	44.500	Data
45	70.115	6.492	92.995	54.75	44.500	Data
45	70.322	6.536	92.984	54.75	44.500	Data
46.5	69.387	6.534	92.981	54.741	44.505	Data
46.5	69.371	6.534	92.974	54.745	44.505	Data
48	70.230	6.518	92.990	54.739	44.500	Data
48	70.228	6.519	92.990	54.74	44.500	Data
49	70.230	6.518	92.990	54.739	44.500	Data
49	70.228	6.519	92.990	54.74	44.500	Data
50	70.230	6.518	92.990	54.739	44.500	Data
50	70.228	6.519	92.990	54.74	44.500	Data
51	70.230	6.518	92.990	54.739	44.500	Data
51	70.228	6.519	92.990	54.74	44.500	Data
52.5	69.387	6.534	92.981	54.741	44.505	Data
52.5	69.371	6.534	92.974	54.745	44.505	Data
54	70.397	6.527	92.982	54.743	44.498	Data
54	71.102	6.534	92.983	54.744	44.499	Data
55	70.397	6.527	92.982	54.743	44.498	Data
55	71.102	6.534	92.983	54.744	44.499	Data
56	70.397	6.527	92.982	54.743	44.498	Data
56	71.102	6.534	92.983	54.744	44.499	Data
57	70.397	6.527	92.982	54.743	44.498	Data
57	71.102	6.534	92.983	54.744	44.499	Data
58.5	69.387	6.534	92.981	54.741	44.505	Data
58.5	69.371	6.534	92.974	54.745	44.505	Data
60.5	70.941	6.492	92.994	54.737	44.500	Data
60.5	70.571	6.472	92.989	54.738	44.500	Data
61.75	70.941	6.492	92.994	54.737	44.500	Data
61.75	70.571	6.472	92.989	54.738	44.500	Data
63	70.941	6.492	92.994	54.737	44.500	Data
63	70.571	6.472	92.989	54.738	44.500	Data
64	70.941	6.492	92.994	54.737	44.500	Data
64	70.571	6.472	92.989	54.738	44.500	Data

Table 165: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.434	6.491	92.975	55.742	44.505	Data
8	69.645	6.481	92.983	55.743	44.505	Data
30	69.818	6.495	92.986	55.743	44.500	Data
30	69.658	6.541	92.993	55.754	44.500	Data
30	70.795	6.515	92.994	55.749	44.500	Data
30	70.962	6.518	92.989	55.749	44.500	Data
30	69.434	6.491	92.975	55.742	44.505	Data
30	69.563	6.542	92.984	55.744	44.500	Data
30	69.645	6.481	92.983	55.743	44.505	Data
30	71.455	6.577	92.990	55.738	44.499	Data
30	70.701	6.538	92.986	55.739	44.499	Data
30	70.640	6.540	92.997	55.754	44.500	Data
42	69.563	6.542	92.984	55.744	44.500	Data
42	69.818	6.495	92.986	55.743	44.500	Data
43	69.563	6.542	92.984	55.744	44.500	Data
43	69.818	6.495	92.986	55.743	44.500	Data
44	69.563	6.542	92.984	55.744	44.500	Data
44	69.818	6.495	92.986	55.743	44.500	Data
45	69.563	6.542	92.984	55.744	44.500	Data
45	69.818	6.495	92.986	55.743	44.500	Data
46.5	69.645	6.481	92.983	55.743	44.505	Data
46.5	69.434	6.491	92.975	55.742	44.505	Data
48	70.640	6.540	92.997	55.754	44.500	Data
48	69.658	6.541	92.993	55.754	44.500	Data
49	70.640	6.540	92.997	55.754	44.500	Data
49	69.658	6.541	92.993	55.754	44.500	Data
50	70.640	6.540	92.997	55.754	44.500	Data
50	69.658	6.541	92.993	55.754	44.500	Data
51	70.640	6.540	92.997	55.754	44.500	Data
51	69.658	6.541	92.993	55.754	44.500	Data
52.5	69.645	6.481	92.983	55.743	44.505	Data
52.5	69.434	6.491	92.975	55.742	44.505	Data
54	71.455	6.577	92.990	55.738	44.499	Data
54	70.701	6.538	92.986	55.739	44.499	Data
55	71.455	6.577	92.990	55.738	44.499	Data
55	70.701	6.538	92.986	55.739	44.499	Data
56	71.455	6.577	92.990	55.738	44.499	Data
56	70.701	6.538	92.986	55.739	44.499	Data
57	71.455	6.577	92.990	55.738	44.499	Data
57	70.701	6.538	92.986	55.739	44.499	Data
58.5	69.645	6.481	92.983	55.743	44.505	Data
58.5	69.434	6.491	92.975	55.742	44.505	Data
60.5	70.962	6.518	92.989	55.749	44.500	Data
60.5	70.795	6.515	92.994	55.749	44.500	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	70.962	6.518	92.989	55.749	44.500	Data
61.75	70.795	6.515	92.994	55.749	44.500	Data
63	70.962	6.518	92.989	55.749	44.500	Data
63	70.795	6.515	92.994	55.749	44.500	Data
64	70.962	6.518	92.989	55.749	44.500	Data
64	70.795	6.515	92.994	55.749	44.500	Data

Table 166: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=55.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.409	6.529	92.980	56.748	44.506	Data
8	69.498	6.494	92.969	56.748	44.505	Data
30	69.409	6.529	92.980	56.748	44.506	Data
30	70.503	6.548	92.988	56.747	44.501	Data
30	70.214	6.564	92.986	56.746	44.501	Data
30	69.498	6.494	92.969	56.748	44.505	Data
30	71.016	6.511	92.997	56.745	44.500	Data
30	71.145	6.621	92.989	56.742	44.498	Data
30	69.645	6.545	92.992	56.745	44.501	Data
30	71.241	6.548	92.987	56.741	44.499	Data
30	70.417	6.608	92.993	56.743	44.501	Data
30	71.423	6.509	92.998	56.746	44.500	Data
42	70.214	6.564	92.986	56.746	44.501	Data
42	70.503	6.548	92.988	56.747	44.501	Data
43	70.214	6.564	92.986	56.746	44.501	Data
43	70.503	6.548	92.988	56.747	44.501	Data
44	70.214	6.564	92.986	56.746	44.501	Data
44	70.503	6.548	92.988	56.747	44.501	Data
45	70.214	6.564	92.986	56.746	44.501	Data
45	70.503	6.548	92.988	56.747	44.501	Data
46.5	69.409	6.529	92.980	56.748	44.506	Data
46.5	69.498	6.494	92.969	56.748	44.505	Data
48	69.645	6.545	92.992	56.745	44.501	Data
48	70.417	6.608	92.993	56.743	44.501	Data
49	69.645	6.545	92.992	56.745	44.501	Data
49	70.417	6.608	92.993	56.743	44.501	Data
50	69.645	6.545	92.992	56.745	44.501	Data
50	70.417	6.608	92.993	56.743	44.501	Data
51	69.645	6.545	92.992	56.745	44.501	Data
51	70.417	6.608	92.993	56.743	44.501	Data
52.5	69.409	6.529	92.980	56.748	44.506	Data
52.5	69.498	6.494	92.969	56.748	44.505	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	71.241	6.548	92.987	56.741	44.499	Data
54	71.145	6.621	92.989	56.742	44.498	Data
55	71.241	6.548	92.987	56.741	44.499	Data
55	71.145	6.621	92.989	56.742	44.498	Data
56	71.145	6.621	92.989	56.742	44.498	Data
56	71.241	6.548	92.987	56.741	44.499	Data
57	71.241	6.548	92.987	56.741	44.499	Data
57	71.145	6.621	92.989	56.742	44.498	Data
58.5	69.409	6.529	92.980	56.748	44.506	Data
58.5	69.498	6.494	92.969	56.748	44.505	Data
60.5	71.016	6.511	92.997	56.745	44.500	Data
60.5	71.423	6.509	92.998	56.746	44.500	Data
61.75	71.016	6.511	92.997	56.745	44.500	Data
61.75	71.423	6.509	92.998	56.746	44.500	Data
63	71.016	6.511	92.997	56.745	44.500	Data
63	71.423	6.509	92.998	56.746	44.500	Data
64	71.016	6.511	92.997	56.745	44.500	Data
64	71.423	6.509	92.998	56.746	44.500	Data

Table 167: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.803	6.530	92.979	57.756	44.506	Data
8	70.113	6.452	92.979	57.758	44.506	Data
30	71.578	6.443	92.994	57.762	44.500	Data
30	69.803	6.530	92.979	57.756	44.506	Data
30	71.300	6.482	92.998	57.76	44.500	Data
30	70.814	6.576	93.000	57.755	44.501	Data
30	70.565	6.490	92.986	57.768	44.502	Data
30	71.241	6.551	92.996	57.759	44.498	Data
30	70.870	6.569	92.988	57.76	44.498	Data
30	70.113	6.452	92.979	57.758	44.506	Data
30	70.092	6.600	92.993	57.756	44.501	Data
30	70.416	6.472	92.987	57.766	44.501	Data
42	70.565	6.490	92.986	57.768	44.502	Data
42	70.416	6.472	92.987	57.766	44.501	Data
43	70.565	6.490	92.986	57.768	44.502	Data
43	70.416	6.472	92.987	57.766	44.501	Data
44	70.565	6.490	92.986	57.768	44.502	Data
44	70.416	6.472	92.987	57.766	44.501	Data
45	70.565	6.490	92.986	57.768	44.502	Data
45	70.416	6.472	92.987	57.766	44.501	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	69.803	6.530	92.979	57.756	44.506	Data
46.5	70.113	6.452	92.979	57.758	44.506	Data
48	70.092	6.600	92.993	57.756	44.501	Data
48	70.814	6.576	93.000	57.755	44.501	Data
49	70.092	6.600	92.993	57.756	44.501	Data
49	70.814	6.576	93.000	57.755	44.501	Data
50	70.092	6.600	92.993	57.756	44.501	Data
50	70.814	6.576	93.000	57.755	44.501	Data
51	70.092	6.600	92.993	57.756	44.501	Data
51	70.814	6.576	93.000	57.755	44.501	Data
52.5	69.803	6.530	92.979	57.756	44.506	Data
52.5	70.113	6.452	92.979	57.758	44.506	Data
54	71.241	6.551	92.996	57.759	44.498	Data
54	70.870	6.569	92.988	57.76	44.498	Data
55	71.241	6.551	92.996	57.759	44.498	Data
55	70.870	6.569	92.988	57.76	44.498	Data
56	71.241	6.551	92.996	57.759	44.498	Data
56	70.870	6.569	92.988	57.76	44.498	Data
57	71.241	6.551	92.996	57.759	44.498	Data
57	70.870	6.569	92.988	57.76	44.498	Data
58.5	70.113	6.452	92.979	57.758	44.506	Data
58.5	69.803	6.530	92.979	57.756	44.506	Data
60.5	71.578	6.443	92.994	57.762	44.500	Data
60.5	71.300	6.482	92.998	57.76	44.500	Data
61.75	71.578	6.443	92.994	57.762	44.500	Data
61.75	71.300	6.482	92.998	57.76	44.500	Data
63	71.578	6.443	92.994	57.762	44.500	Data
63	71.300	6.482	92.998	57.76	44.500	Data
64	71.300	6.482	92.998	57.76	44.500	Data
64	71.578	6.443	92.994	57.762	44.500	Data

Table 168: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=57.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.144	6.511	92.976	58.757	44.506	Data
8	69.659	6.528	92.978	58.758	44.507	Data
30	69.659	6.528	92.978	58.758	44.507	Data
30	70.126	6.472	92.980	58.766	44.502	Data
30	69.144	6.511	92.976	58.757	44.506	Data
30	70.420	6.513	92.985	58.765	44.502	Data
30	70.802	6.497	92.996	58.754	44.500	Data
30	70.050	6.586	92.990	58.755	44.502	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.676	6.582	92.991	58.75	44.498	Data
30	70.520	6.456	92.995	58.754	44.500	Data
30	70.298	6.566	92.992	58.754	44.502	Data
30	70.882	6.530	92.990	58.75	44.498	Data
42	70.126	6.472	92.980	58.766	44.502	Data
42	70.420	6.513	92.985	58.765	44.502	Data
43	70.126	6.472	92.980	58.766	44.502	Data
43	70.420	6.513	92.985	58.765	44.502	Data
44	70.126	6.472	92.980	58.766	44.502	Data
44	70.420	6.513	92.985	58.765	44.502	Data
45	70.126	6.472	92.980	58.766	44.502	Data
45	70.420	6.513	92.985	58.765	44.502	Data
46.5	69.144	6.511	92.976	58.757	44.506	Data
46.5	69.659	6.528	92.978	58.758	44.507	Data
48	70.050	6.586	92.990	58.755	44.502	Data
48	70.298	6.566	92.992	58.754	44.502	Data
49	70.050	6.586	92.990	58.755	44.502	Data
49	70.298	6.566	92.992	58.754	44.502	Data
50	70.050	6.586	92.990	58.755	44.502	Data
50	70.298	6.566	92.992	58.754	44.502	Data
51	70.050	6.586	92.990	58.755	44.502	Data
51	70.298	6.566	92.992	58.754	44.502	Data
52.5	69.144	6.511	92.976	58.757	44.506	Data
52.5	69.659	6.528	92.978	58.758	44.507	Data
54	70.676	6.582	92.991	58.75	44.498	Data
54	70.882	6.530	92.990	58.75	44.498	Data
55	70.676	6.582	92.991	58.75	44.498	Data
55	70.882	6.530	92.990	58.75	44.498	Data
56	70.676	6.582	92.991	58.75	44.498	Data
56	70.882	6.530	92.990	58.75	44.498	Data
57	70.676	6.582	92.991	58.75	44.498	Data
57	70.882	6.530	92.990	58.75	44.498	Data
58.5	69.144	6.511	92.976	58.757	44.506	Data
58.5	69.659	6.528	92.978	58.758	44.507	Data
60.5	70.520	6.456	92.995	58.754	44.500	Data
60.5	70.802	6.497	92.996	58.754	44.500	Data
61.75	70.520	6.456	92.995	58.754	44.500	Data
61.75	70.802	6.497	92.996	58.754	44.500	Data
63	70.520	6.456	92.995	58.754	44.500	Data
63	70.802	6.497	92.996	58.754	44.500	Data
64	70.520	6.456	92.995	58.754	44.500	Data
64	70.802	6.497	92.996	58.754	44.500	Data

Table 169: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.771	6.524	92.982	59.755	44.507	Data
8	70.471	6.448	92.981	59.753	44.507	Data
30	70.471	6.448	92.981	59.753	44.507	Data
30	71.661	6.530	92.999	59.752	44.499	Data
30	70.771	6.524	92.982	59.755	44.507	Data
30	70.115	6.551	92.996	59.753	44.503	Data
30	70.204	6.454	92.997	59.752	44.499	Data
30	70.597	6.546	92.976	59.759	44.504	Data
30	70.280	6.491	92.989	59.759	44.503	Data
30	69.580	6.589	92.998	59.753	44.503	Data
30	70.517	6.534	92.992	59.759	44.497	Data
30	71.343	6.545	92.992	59.759	44.497	Data
42	70.597	6.546	92.976	59.759	44.504	Data
42	70.280	6.491	92.989	59.759	44.503	Data
43	70.597	6.546	92.976	59.759	44.504	Data
43	70.280	6.491	92.989	59.759	44.503	Data
44	70.597	6.546	92.976	59.759	44.504	Data
44	70.280	6.491	92.989	59.759	44.503	Data
45	70.597	6.546	92.976	59.759	44.504	Data
45	70.280	6.491	92.989	59.759	44.503	Data
46.5	70.471	6.448	92.981	59.753	44.507	Data
46.5	70.771	6.524	92.982	59.755	44.507	Data
48	70.115	6.551	92.996	59.753	44.503	Data
48	69.580	6.589	92.998	59.753	44.503	Data
49	70.115	6.551	92.996	59.753	44.503	Data
49	69.580	6.589	92.998	59.753	44.503	Data
50	70.115	6.551	92.996	59.753	44.503	Data
50	69.580	6.589	92.998	59.753	44.503	Data
51	70.115	6.551	92.996	59.753	44.503	Data
51	69.580	6.589	92.998	59.753	44.503	Data
52.5	70.771	6.524	92.982	59.755	44.507	Data
52.5	70.471	6.448	92.981	59.753	44.507	Data
54	70.517	6.534	92.992	59.759	44.497	Data
54	71.343	6.545	92.992	59.759	44.497	Data
55	70.517	6.534	92.992	59.759	44.497	Data
55	71.343	6.545	92.992	59.759	44.497	Data
56	70.517	6.534	92.992	59.759	44.497	Data
56	71.343	6.545	92.992	59.759	44.497	Data
57	70.517	6.534	92.992	59.759	44.497	Data
57	71.343	6.545	92.992	59.759	44.497	Data
58.5	70.771	6.524	92.982	59.755	44.507	Data
58.5	70.471	6.448	92.981	59.753	44.507	Data
60.5	71.661	6.530	92.999	59.752	44.499	Data
60.5	70.204	6.454	92.997	59.752	44.499	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	71.661	6.530	92.999	59.752	44.499	Data
61.75	70.204	6.454	92.997	59.752	44.499	Data
63	71.661	6.530	92.999	59.752	44.499	Data
63	70.204	6.454	92.997	59.752	44.499	Data
64	71.661	6.530	92.999	59.752	44.499	Data
64	70.204	6.454	92.997	59.752	44.499	Data

Table 170: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=59.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.430	6.508	92.982	60.745	44.509	Data
8	70.058	6.523	92.984	60.745	44.508	Data
30	70.430	6.508	92.982	60.745	44.509	Data
30	71.319	6.517	92.997	60.754	44.499	Data
30	70.058	6.523	92.984	60.745	44.508	Data
30	70.641	6.532	92.993	60.755	44.498	Data
30	71.378	6.519	92.984	60.759	44.497	Data
30	70.806	6.498	92.989	60.768	44.505	Data
30	69.986	6.619	92.993	60.752	44.506	Data
30	71.159	6.591	92.986	60.758	44.496	Data
30	70.881	6.453	92.990	60.769	44.505	Data
30	69.735	6.535	92.989	60.752	44.506	Data
42	70.881	6.453	92.990	60.769	44.505	Data
42	70.806	6.498	92.989	60.768	44.505	Data
43	70.881	6.453	92.990	60.769	44.505	Data
43	70.806	6.498	92.989	60.768	44.505	Data
44	70.881	6.453	92.990	60.769	44.505	Data
44	70.806	6.498	92.989	60.768	44.505	Data
45	70.881	6.453	92.990	60.769	44.505	Data
45	70.806	6.498	92.989	60.768	44.505	Data
46.5	70.430	6.508	92.982	60.745	44.509	Data
46.5	70.058	6.523	92.984	60.745	44.508	Data
48	69.986	6.619	92.993	60.752	44.506	Data
48	69.735	6.535	92.989	60.752	44.506	Data
49	69.986	6.619	92.993	60.752	44.506	Data
49	69.735	6.535	92.989	60.752	44.506	Data
50	69.986	6.619	92.993	60.752	44.506	Data
50	69.735	6.535	92.989	60.752	44.506	Data
51	69.986	6.619	92.993	60.752	44.506	Data
51	69.735	6.535	92.989	60.752	44.506	Data
52.5	70.430	6.508	92.982	60.745	44.509	Data
52.5	70.058	6.523	92.984	60.745	44.508	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	71.159	6.591	92.986	60.758	44.496	Data
54	71.378	6.519	92.984	60.759	44.497	Data
55	71.159	6.591	92.986	60.758	44.496	Data
55	71.378	6.519	92.984	60.759	44.497	Data
56	71.159	6.591	92.986	60.758	44.496	Data
56	71.378	6.519	92.984	60.759	44.497	Data
57	71.159	6.591	92.986	60.758	44.496	Data
57	71.378	6.519	92.984	60.759	44.497	Data
58.5	70.430	6.508	92.982	60.745	44.509	Data
58.5	70.058	6.523	92.984	60.745	44.508	Data
60.5	71.319	6.517	92.997	60.754	44.499	Data
60.5	70.641	6.532	92.993	60.755	44.498	Data
61.75	71.319	6.517	92.997	60.754	44.499	Data
61.75	70.641	6.532	92.993	60.755	44.498	Data
63	71.319	6.517	92.997	60.754	44.499	Data
63	70.641	6.532	92.993	60.755	44.498	Data
64	70.641	6.532	92.993	60.755	44.498	Data
64	71.319	6.517	92.997	60.754	44.499	Data

Table 171: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 4 +6ft — VG at span y=60.5 (in)

D.13. Horizontal VG vortex sweep at height z=45, q=70, α_{VG}=8, α_W=7, RO-tip+6ft

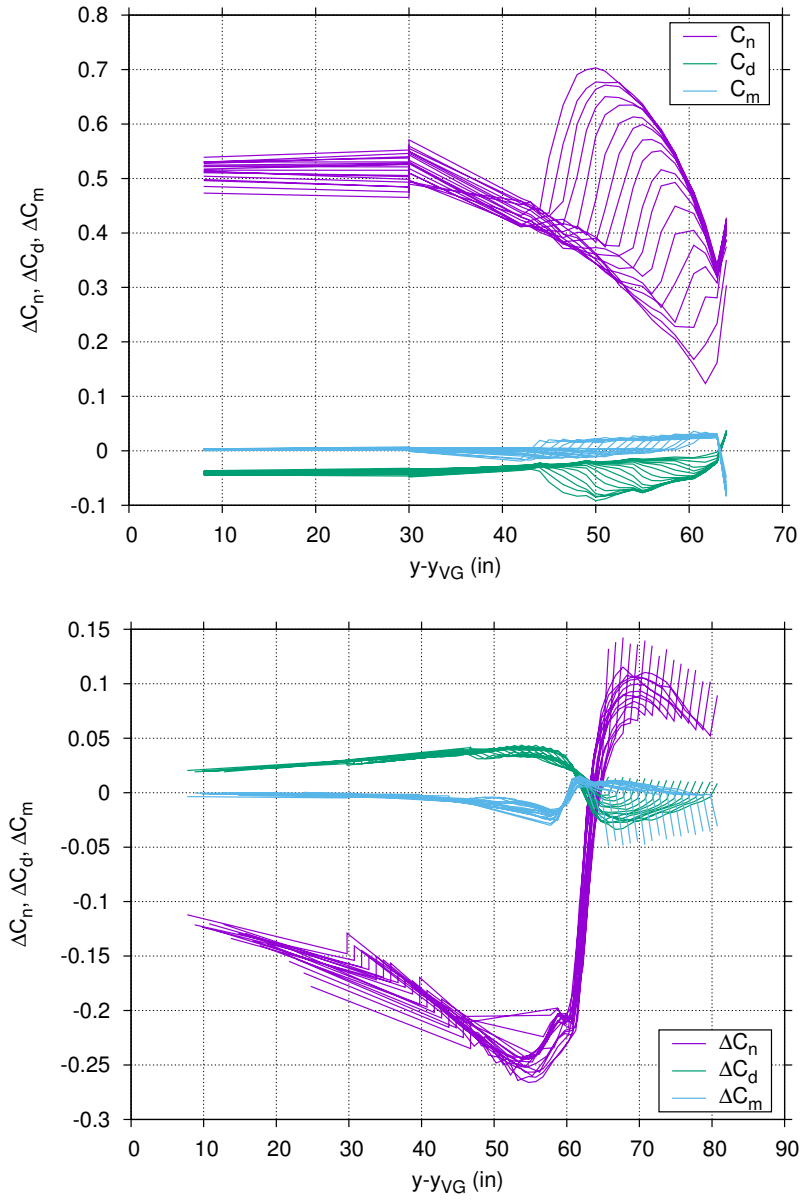

Figure 66. VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — (Data)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.994	6.471	92.976	43.745	45.008	Data
8	69.793	6.514	92.982	43.745	45.008	Data
30	69.793	6.514	92.982	43.745	45.008	Data
30	69.356	6.498	92.999	43.749	44.993	Data
30	68.620	6.525	93.003	43.754	44.997	Data
30	68.994	6.471	92.976	43.745	45.008	Data
30	69.617	6.517	93.014	43.755	44.996	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.798	6.464	92.985	43.756	45.005	Data
30	68.564	6.489	92.996	43.75	44.993	Data
30	69.298	6.566	92.978	43.755	44.998	Data
30	69.769	6.525	92.983	43.755	44.998	Data
30	70.172	6.579	92.986	43.76	45.005	Data
42	69.798	6.464	92.985	43.756	45.005	Data
42	70.172	6.579	92.986	43.76	45.005	Data
43	69.798	6.464	92.985	43.756	45.005	Data
43	70.172	6.579	92.986	43.76	45.005	Data
44	69.798	6.464	92.985	43.756	45.005	Data
44	70.172	6.579	92.986	43.76	45.005	Data
45	69.798	6.464	92.985	43.756	45.005	Data
45	70.172	6.579	92.986	43.76	45.005	Data
46.5	69.793	6.514	92.982	43.745	45.008	Data
46.5	68.994	6.471	92.976	43.745	45.008	Data
48	69.617	6.517	93.014	43.755	44.996	Data
48	68.620	6.525	93.003	43.754	44.997	Data
49	69.617	6.517	93.014	43.755	44.996	Data
49	68.620	6.525	93.003	43.754	44.997	Data
50	69.617	6.517	93.014	43.755	44.996	Data
50	68.620	6.525	93.003	43.754	44.997	Data
51	68.620	6.525	93.003	43.754	44.997	Data
51	69.617	6.517	93.014	43.755	44.996	Data
52.5	69.793	6.514	92.982	43.745	45.008	Data
52.5	68.994	6.471	92.976	43.745	45.008	Data
54	69.769	6.525	92.983	43.755	44.998	Data
54	69.298	6.566	92.978	43.755	44.998	Data
55	69.769	6.525	92.983	43.755	44.998	Data
55	69.298	6.566	92.978	43.755	44.998	Data
56	69.769	6.525	92.983	43.755	44.998	Data
56	69.298	6.566	92.978	43.755	44.998	Data
57	69.769	6.525	92.983	43.755	44.998	Data
57	69.298	6.566	92.978	43.755	44.998	Data
58.5	68.994	6.471	92.976	43.745	45.008	Data
58.5	69.793	6.514	92.982	43.745	45.008	Data
60.5	69.356	6.498	92.999	43.749	44.993	Data
60.5	68.564	6.489	92.996	43.75	44.993	Data
61.75	69.356	6.498	92.999	43.749	44.993	Data
61.75	68.564	6.489	92.996	43.75	44.993	Data
63	69.356	6.498	92.999	43.749	44.993	Data
63	68.564	6.489	92.996	43.75	44.993	Data
64	69.356	6.498	92.999	43.749	44.993	Data
64	68.564	6.489	92.996	43.75	44.993	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 172: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.757	6.529	92.980	44.74	45.007	Data
8	69.479	6.459	92.980	44.741	45.008	Data
30	69.479	6.459	92.980	44.741	45.008	Data
30	69.757	6.529	92.980	44.74	45.007	Data
30	69.675	6.537	93.002	44.748	44.997	Data
30	68.598	6.482	92.992	44.743	44.994	Data
30	69.799	6.587	92.983	44.743	44.998	Data
30	68.945	6.546	92.998	44.743	44.993	Data
30	69.139	6.557	93.006	44.748	44.996	Data
30	70.300	6.553	92.986	44.742	45.004	Data
30	70.437	6.553	92.982	44.743	44.998	Data
30	70.792	6.492	92.992	44.741	45.005	Data
42	70.300	6.553	92.986	44.742	45.004	Data
42	70.792	6.492	92.992	44.741	45.005	Data
43	70.300	6.553	92.986	44.742	45.004	Data
43	70.792	6.492	92.992	44.741	45.005	Data
44	70.300	6.553	92.986	44.742	45.004	Data
44	70.792	6.492	92.992	44.741	45.005	Data
45	70.300	6.553	92.986	44.742	45.004	Data
45	70.792	6.492	92.992	44.741	45.005	Data
46.5	69.479	6.459	92.980	44.741	45.008	Data
46.5	69.757	6.529	92.980	44.74	45.007	Data
48	69.675	6.537	93.002	44.748	44.997	Data
48	69.139	6.557	93.006	44.748	44.996	Data
49	69.675	6.537	93.002	44.748	44.997	Data
49	69.139	6.557	93.006	44.748	44.996	Data
50	69.675	6.537	93.002	44.748	44.997	Data
50	69.139	6.557	93.006	44.748	44.996	Data
51	69.675	6.537	93.002	44.748	44.997	Data
51	69.139	6.557	93.006	44.748	44.996	Data
52.5	69.479	6.459	92.980	44.741	45.008	Data
52.5	69.757	6.529	92.980	44.74	45.007	Data
54	69.799	6.587	92.983	44.743	44.998	Data
54	70.437	6.553	92.982	44.743	44.998	Data
55	69.799	6.587	92.983	44.743	44.998	Data
55	70.437	6.553	92.982	44.743	44.998	Data
56	69.799	6.587	92.983	44.743	44.998	Data
56	70.437	6.553	92.982	44.743	44.998	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	69.799	6.587	92.983	44.743	44.998	Data
57	70.437	6.553	92.982	44.743	44.998	Data
58.5	69.479	6.459	92.980	44.741	45.008	Data
58.5	69.757	6.529	92.980	44.74	45.007	Data
60.5	68.945	6.546	92.998	44.743	44.993	Data
60.5	68.598	6.482	92.992	44.743	44.994	Data
61.75	68.945	6.546	92.998	44.743	44.993	Data
61.75	68.598	6.482	92.992	44.743	44.994	Data
63	68.945	6.546	92.998	44.743	44.993	Data
63	68.598	6.482	92.992	44.743	44.994	Data
64	68.945	6.546	92.998	44.743	44.993	Data
64	68.598	6.482	92.992	44.743	44.994	Data

Table 173: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.566	6.523	92.976	45.735	45.008	Data
8	69.928	6.464	92.974	45.733	45.008	Data
30	69.333	6.545	93.002	45.739	44.994	Data
30	69.928	6.464	92.974	45.733	45.008	Data
30	70.015	6.522	92.980	45.737	44.998	Data
30	70.015	6.522	93.007	45.743	44.997	Data
30	70.566	6.523	92.976	45.735	45.008	Data
30	70.717	6.515	92.993	45.735	45.005	Data
30	70.137	6.535	92.985	45.737	44.998	Data
30	69.512	6.502	93.001	45.74	44.994	Data
30	70.979	6.516	92.991	45.735	45.004	Data
30	69.605	6.604	93.006	45.743	44.997	Data
42	70.717	6.515	92.993	45.735	45.005	Data
42	70.979	6.516	92.991	45.735	45.004	Data
43	70.717	6.515	92.993	45.735	45.005	Data
43	70.979	6.516	92.991	45.735	45.004	Data
44	70.717	6.515	92.993	45.735	45.005	Data
44	70.979	6.516	92.991	45.735	45.004	Data
45	70.717	6.515	92.993	45.735	45.005	Data
45	70.979	6.516	92.991	45.735	45.004	Data
46.5	69.928	6.464	92.974	45.733	45.008	Data
46.5	70.566	6.523	92.976	45.735	45.008	Data
48	70.015	6.522	93.007	45.743	44.997	Data
48	69.605	6.604	93.006	45.743	44.997	Data
49	70.015	6.522	93.007	45.743	44.997	Data
49	69.605	6.604	93.006	45.743	44.997	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	70.015	6.522	93.007	45.743	44.997	Data
50	69.605	6.604	93.006	45.743	44.997	Data
51	70.015	6.522	93.007	45.743	44.997	Data
51	69.605	6.604	93.006	45.743	44.997	Data
52.5	69.928	6.464	92.974	45.733	45.008	Data
52.5	70.566	6.523	92.976	45.735	45.008	Data
54	70.137	6.535	92.985	45.737	44.998	Data
54	70.015	6.522	92.980	45.737	44.998	Data
55	70.137	6.535	92.985	45.737	44.998	Data
55	70.015	6.522	92.980	45.737	44.998	Data
56	70.137	6.535	92.985	45.737	44.998	Data
56	70.015	6.522	92.980	45.737	44.998	Data
57	70.137	6.535	92.985	45.737	44.998	Data
57	70.015	6.522	92.980	45.737	44.998	Data
58.5	69.928	6.464	92.974	45.733	45.008	Data
58.5	70.566	6.523	92.976	45.735	45.008	Data
60.5	69.512	6.502	93.001	45.74	44.994	Data
60.5	69.333	6.545	93.002	45.739	44.994	Data
61.75	69.512	6.502	93.001	45.74	44.994	Data
61.75	69.333	6.545	93.002	45.739	44.994	Data
63	69.512	6.502	93.001	45.74	44.994	Data
63	69.333	6.545	93.002	45.739	44.994	Data
64	69.512	6.502	93.001	45.74	44.994	Data
64	69.333	6.545	93.002	45.739	44.994	Data

Table 174: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=45.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.290	6.480	92.982	46.747	45.007	Data
8	71.145	6.486	92.976	46.742	45.007	Data
30	70.040	6.535	92.996	46.74	45.005	Data
30	71.145	6.486	92.976	46.742	45.007	Data
30	70.449	6.591	92.978	46.743	44.998	Data
30	70.254	6.593	92.974	46.743	44.998	Data
30	69.778	6.518	93.000	46.741	44.995	Data
30	70.290	6.480	92.982	46.747	45.007	Data
30	71.182	6.511	93.001	46.74	45.005	Data
30	68.370	6.539	93.005	46.737	44.997	Data
30	69.003	6.516	92.992	46.741	44.995	Data
30	67.743	6.507	93.008	46.737	44.996	Data
42	70.040	6.535	92.996	46.74	45.005	Data
42	71.182	6.511	93.001	46.74	45.005	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	70.040	6.535	92.996	46.74	45.005	Data
43	71.182	6.511	93.001	46.74	45.005	Data
44	70.040	6.535	92.996	46.74	45.005	Data
44	71.182	6.511	93.001	46.74	45.005	Data
45	70.040	6.535	92.996	46.74	45.005	Data
45	71.182	6.511	93.001	46.74	45.005	Data
46.5	71.145	6.486	92.976	46.742	45.007	Data
46.5	70.290	6.480	92.982	46.747	45.007	Data
48	68.370	6.539	93.005	46.737	44.997	Data
48	67.743	6.507	93.008	46.737	44.996	Data
49	68.370	6.539	93.005	46.737	44.997	Data
49	67.743	6.507	93.008	46.737	44.996	Data
50	68.370	6.539	93.005	46.737	44.997	Data
50	67.743	6.507	93.008	46.737	44.996	Data
51	68.370	6.539	93.005	46.737	44.997	Data
51	67.743	6.507	93.008	46.737	44.996	Data
52.5	70.290	6.480	92.982	46.747	45.007	Data
52.5	71.145	6.486	92.976	46.742	45.007	Data
54	70.254	6.593	92.974	46.743	44.998	Data
54	70.449	6.591	92.978	46.743	44.998	Data
55	70.254	6.593	92.974	46.743	44.998	Data
55	70.449	6.591	92.978	46.743	44.998	Data
56	70.254	6.593	92.974	46.743	44.998	Data
56	70.449	6.591	92.978	46.743	44.998	Data
57	70.254	6.593	92.974	46.743	44.998	Data
57	70.449	6.591	92.978	46.743	44.998	Data
58.5	71.145	6.486	92.976	46.742	45.007	Data
58.5	70.290	6.480	92.982	46.747	45.007	Data
60.5	69.003	6.516	92.992	46.741	44.995	Data
60.5	69.778	6.518	93.000	46.741	44.995	Data
61.75	69.003	6.516	92.992	46.741	44.995	Data
61.75	69.778	6.518	93.000	46.741	44.995	Data
63	69.003	6.516	92.992	46.741	44.995	Data
63	69.778	6.518	93.000	46.741	44.995	Data
64	69.003	6.516	92.992	46.741	44.995	Data
64	69.778	6.518	93.000	46.741	44.995	Data

Table 175: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.322	6.473	92.981	47.738	45.007	Data
8	71.193	6.440	92.978	47.739	45.007	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.223	6.572	92.999	47.741	45.004	Data
30	70.322	6.473	92.981	47.738	45.007	Data
30	70.707	6.479	92.996	47.742	45.004	Data
30	71.193	6.440	92.978	47.739	45.007	Data
30	70.257	6.612	92.979	47.745	44.998	Data
30	68.386	6.515	93.005	47.741	44.997	Data
30	68.395	6.528	93.003	47.749	44.997	Data
30	68.555	6.523	92.998	47.741	44.998	Data
30	70.155	6.547	92.983	47.743	44.999	Data
30	68.553	6.473	93.002	47.751	44.997	Data
42	70.707	6.479	92.996	47.742	45.004	Data
42	71.223	6.572	92.999	47.741	45.004	Data
43	70.707	6.479	92.996	47.742	45.004	Data
43	71.223	6.572	92.999	47.741	45.004	Data
44	70.707	6.479	92.996	47.742	45.004	Data
44	71.223	6.572	92.999	47.741	45.004	Data
45	70.707	6.479	92.996	47.742	45.004	Data
45	71.223	6.572	92.999	47.741	45.004	Data
46.5	70.322	6.473	92.981	47.738	45.007	Data
46.5	71.193	6.440	92.978	47.739	45.007	Data
48	68.395	6.528	93.003	47.749	44.997	Data
48	68.553	6.473	93.002	47.751	44.997	Data
49	68.553	6.473	93.002	47.751	44.997	Data
49	68.395	6.528	93.003	47.749	44.997	Data
50	68.553	6.473	93.002	47.751	44.997	Data
50	68.395	6.528	93.003	47.749	44.997	Data
51	68.553	6.473	93.002	47.751	44.997	Data
51	68.395	6.528	93.003	47.749	44.997	Data
52.5	71.193	6.440	92.978	47.739	45.007	Data
52.5	70.322	6.473	92.981	47.738	45.007	Data
54	70.155	6.547	92.983	47.743	44.999	Data
54	70.257	6.612	92.979	47.745	44.998	Data
55	70.155	6.547	92.983	47.743	44.999	Data
55	70.257	6.612	92.979	47.745	44.998	Data
56	70.155	6.547	92.983	47.743	44.999	Data
56	70.257	6.612	92.979	47.745	44.998	Data
57	70.155	6.547	92.983	47.743	44.999	Data
57	70.257	6.612	92.979	47.745	44.998	Data
58.5	71.193	6.440	92.978	47.739	45.007	Data
58.5	70.322	6.473	92.981	47.738	45.007	Data
60.5	68.555	6.523	92.998	47.741	44.998	Data
60.5	68.386	6.515	93.005	47.741	44.997	Data
61.75	68.555	6.523	92.998	47.741	44.998	Data
61.75	68.386	6.515	93.005	47.741	44.997	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	68.555	6.523	92.998	47.741	44.998	Data
63	68.386	6.515	93.005	47.741	44.997	Data
64	68.386	6.515	93.005	47.741	44.997	Data
64	68.555	6.523	92.998	47.741	44.998	Data

Table 176: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=47.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.374	6.500	92.976	48.744	45.008	Data
8	70.414	6.537	92.984	48.745	45.007	Data
30	71.843	6.510	93.005	48.746	45.004	Data
30	71.374	6.500	92.976	48.744	45.008	Data
30	70.414	6.537	92.984	48.745	45.007	Data
30	67.967	6.547	92.994	48.745	45.001	Data
30	69.873	6.560	92.985	48.742	44.998	Data
30	71.022	6.596	92.982	48.743	44.999	Data
30	68.497	6.533	93.005	48.747	44.996	Data
30	69.185	6.575	93.007	48.748	44.997	Data
30	71.130	6.548	92.998	48.749	45.003	Data
30	69.194	6.489	92.997	48.747	45.001	Data
42	71.843	6.510	93.005	48.746	45.004	Data
42	71.130	6.548	92.998	48.749	45.003	Data
43	71.843	6.510	93.005	48.746	45.004	Data
43	71.130	6.548	92.998	48.749	45.003	Data
44	71.843	6.510	93.005	48.746	45.004	Data
44	71.130	6.548	92.998	48.749	45.003	Data
45	71.843	6.510	93.005	48.746	45.004	Data
45	71.130	6.548	92.998	48.749	45.003	Data
46.5	71.374	6.500	92.976	48.744	45.008	Data
46.5	70.414	6.537	92.984	48.745	45.007	Data
48	68.497	6.533	93.005	48.747	44.996	Data
48	69.185	6.575	93.007	48.748	44.997	Data
49	68.497	6.533	93.005	48.747	44.996	Data
49	69.185	6.575	93.007	48.748	44.997	Data
50	68.497	6.533	93.005	48.747	44.996	Data
50	69.185	6.575	93.007	48.748	44.997	Data
51	69.185	6.575	93.007	48.748	44.997	Data
51	68.497	6.533	93.005	48.747	44.996	Data
52.5	71.374	6.500	92.976	48.744	45.008	Data
52.5	70.414	6.537	92.984	48.745	45.007	Data
54	69.873	6.560	92.985	48.742	44.998	Data
54	71.022	6.596	92.982	48.743	44.999	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	71.022	6.596	92.982	48.743	44.999	Data
55	69.873	6.560	92.985	48.742	44.998	Data
56	71.022	6.596	92.982	48.743	44.999	Data
56	69.873	6.560	92.985	48.742	44.998	Data
57	71.022	6.596	92.982	48.743	44.999	Data
57	69.873	6.560	92.985	48.742	44.998	Data
58.5	71.374	6.500	92.976	48.744	45.008	Data
58.5	70.414	6.537	92.984	48.745	45.007	Data
60.5	67.967	6.547	92.994	48.745	45.001	Data
60.5	69.194	6.489	92.997	48.747	45.001	Data
61.75	67.967	6.547	92.994	48.745	45.001	Data
61.75	69.194	6.489	92.997	48.747	45.001	Data
63	67.967	6.547	92.994	48.745	45.001	Data
63	69.194	6.489	92.997	48.747	45.001	Data
64	69.194	6.489	92.997	48.747	45.001	Data
64	67.967	6.547	92.994	48.745	45.001	Data

Table 177: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.795	6.497	92.973	49.746	45.007	Data
8	70.405	6.515	92.975	49.746	45.007	Data
30	71.795	6.497	92.973	49.746	45.007	Data
30	69.230	6.565	92.997	49.746	45.003	Data
30	68.675	6.514	93.005	49.754	44.996	Data
30	69.174	6.551	93.005	49.753	44.996	Data
30	70.591	6.578	92.984	49.748	44.999	Data
30	70.405	6.515	92.975	49.746	45.007	Data
30	70.956	6.502	93.006	49.751	45.004	Data
30	69.120	6.559	93.000	49.745	45.003	Data
30	71.498	6.500	93.012	49.752	45.003	Data
30	71.413	6.541	92.983	49.748	44.998	Data
42	70.956	6.502	93.006	49.751	45.004	Data
42	71.498	6.500	93.012	49.752	45.003	Data
43	70.956	6.502	93.006	49.751	45.004	Data
43	71.498	6.500	93.012	49.752	45.003	Data
44	70.956	6.502	93.006	49.751	45.004	Data
44	71.498	6.500	93.012	49.752	45.003	Data
45	70.956	6.502	93.006	49.751	45.004	Data
45	71.498	6.500	93.012	49.752	45.003	Data
46.5	71.795	6.497	92.973	49.746	45.007	Data
46.5	70.405	6.515	92.975	49.746	45.007	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	69.174	6.551	93.005	49.753	44.996	Data
48	68.675	6.514	93.005	49.754	44.996	Data
49	69.174	6.551	93.005	49.753	44.996	Data
49	68.675	6.514	93.005	49.754	44.996	Data
50	69.174	6.551	93.005	49.753	44.996	Data
50	68.675	6.514	93.005	49.754	44.996	Data
51	68.675	6.514	93.005	49.754	44.996	Data
51	69.174	6.551	93.005	49.753	44.996	Data
52.5	71.795	6.497	92.973	49.746	45.007	Data
52.5	70.405	6.515	92.975	49.746	45.007	Data
54	70.591	6.578	92.984	49.748	44.999	Data
54	71.413	6.541	92.983	49.748	44.998	Data
55	70.591	6.578	92.984	49.748	44.999	Data
55	71.413	6.541	92.983	49.748	44.998	Data
56	70.591	6.578	92.984	49.748	44.999	Data
56	71.413	6.541	92.983	49.748	44.998	Data
57	70.591	6.578	92.984	49.748	44.999	Data
57	71.413	6.541	92.983	49.748	44.998	Data
58.5	71.795	6.497	92.973	49.746	45.007	Data
58.5	70.405	6.515	92.975	49.746	45.007	Data
60.5	69.120	6.559	93.000	49.745	45.003	Data
60.5	69.230	6.565	92.997	49.746	45.003	Data
61.75	69.120	6.559	93.000	49.745	45.003	Data
61.75	69.230	6.565	92.997	49.746	45.003	Data
63	69.120	6.559	93.000	49.745	45.003	Data
63	69.230	6.565	92.997	49.746	45.003	Data
64	69.230	6.565	92.997	49.746	45.003	Data
64	69.120	6.559	93.000	49.745	45.003	Data

Table 178: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=49.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.793	6.529	92.983	50.744	45.007	Data
8	71.515	6.488	92.986	50.749	45.006	Data
30	71.515	6.488	92.986	50.749	45.006	Data
30	69.993	6.500	92.998	50.749	45.004	Data
30	68.158	6.533	93.006	50.752	44.995	Data
30	69.984	6.529	93.000	50.751	45.004	Data
30	71.793	6.529	92.983	50.744	45.007	Data
30	69.537	6.539	92.996	50.744	45.004	Data
30	71.237	6.519	92.980	50.748	44.999	Data
30	70.789	6.561	92.980	50.749	44.999	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.221	6.519	92.994	50.744	45.004	Data
30	69.075	6.548	93.001	50.75	44.996	Data
42	69.984	6.529	93.000	50.751	45.004	Data
42	69.993	6.500	92.998	50.749	45.004	Data
43	69.984	6.529	93.000	50.751	45.004	Data
43	69.993	6.500	92.998	50.749	45.004	Data
44	69.984	6.529	93.000	50.751	45.004	Data
44	69.993	6.500	92.998	50.749	45.004	Data
45	69.984	6.529	93.000	50.751	45.004	Data
45	69.993	6.500	92.998	50.749	45.004	Data
46.5	71.515	6.488	92.986	50.749	45.006	Data
46.5	71.793	6.529	92.983	50.744	45.007	Data
48	68.158	6.533	93.006	50.752	44.995	Data
48	69.075	6.548	93.001	50.75	44.996	Data
49	68.158	6.533	93.006	50.752	44.995	Data
49	69.075	6.548	93.001	50.75	44.996	Data
50	68.158	6.533	93.006	50.752	44.995	Data
50	69.075	6.548	93.001	50.75	44.996	Data
51	68.158	6.533	93.006	50.752	44.995	Data
51	69.075	6.548	93.001	50.75	44.996	Data
52.5	71.515	6.488	92.986	50.749	45.006	Data
52.5	71.793	6.529	92.983	50.744	45.007	Data
54	71.237	6.519	92.980	50.748	44.999	Data
54	70.789	6.561	92.980	50.749	44.999	Data
55	71.237	6.519	92.980	50.748	44.999	Data
55	70.789	6.561	92.980	50.749	44.999	Data
56	71.237	6.519	92.980	50.748	44.999	Data
56	70.789	6.561	92.980	50.749	44.999	Data
57	71.237	6.519	92.980	50.748	44.999	Data
57	70.789	6.561	92.980	50.749	44.999	Data
58.5	71.515	6.488	92.986	50.749	45.006	Data
58.5	71.793	6.529	92.983	50.744	45.007	Data
60.5	69.537	6.539	92.996	50.744	45.004	Data
60.5	70.221	6.519	92.994	50.744	45.004	Data
61.75	69.537	6.539	92.996	50.744	45.004	Data
61.75	70.221	6.519	92.994	50.744	45.004	Data
63	69.537	6.539	92.996	50.744	45.004	Data
63	70.221	6.519	92.994	50.744	45.004	Data
64	69.537	6.539	92.996	50.744	45.004	Data
64	70.221	6.519	92.994	50.744	45.004	Data

Table 179: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.549	6.485	92.978	51.741	45.007	Data
8	71.992	6.492	92.982	51.742	45.006	Data
30	70.207	6.537	93.002	51.746	45.004	Data
30	70.750	6.536	93.006	51.746	45.003	Data
30	69.079	6.509	92.995	51.744	45.006	Data
30	69.801	6.524	92.998	51.745	45.006	Data
30	71.992	6.492	92.982	51.742	45.006	Data
30	71.549	6.485	92.978	51.741	45.007	Data
30	71.122	6.553	92.987	51.748	44.999	Data
30	69.241	6.563	93.002	51.752	44.995	Data
30	68.324	6.561	93.002	51.753	44.995	Data
30	70.804	6.593	92.979	51.75	44.999	Data
42	70.750	6.536	93.006	51.746	45.003	Data
42	70.207	6.537	93.002	51.746	45.004	Data
43	70.750	6.536	93.006	51.746	45.003	Data
43	70.207	6.537	93.002	51.746	45.004	Data
44	70.750	6.536	93.006	51.746	45.003	Data
44	70.207	6.537	93.002	51.746	45.004	Data
45	70.750	6.536	93.006	51.746	45.003	Data
45	70.207	6.537	93.002	51.746	45.004	Data
46.5	71.549	6.485	92.978	51.741	45.007	Data
46.5	71.992	6.492	92.982	51.742	45.006	Data
48	68.324	6.561	93.002	51.753	44.995	Data
48	69.241	6.563	93.002	51.752	44.995	Data
49	69.241	6.563	93.002	51.752	44.995	Data
49	68.324	6.561	93.002	51.753	44.995	Data
50	69.241	6.563	93.002	51.752	44.995	Data
50	68.324	6.561	93.002	51.753	44.995	Data
51	69.241	6.563	93.002	51.752	44.995	Data
51	68.324	6.561	93.002	51.753	44.995	Data
52.5	71.549	6.485	92.978	51.741	45.007	Data
52.5	71.992	6.492	92.982	51.742	45.006	Data
54	70.804	6.593	92.979	51.75	44.999	Data
54	71.122	6.553	92.987	51.748	44.999	Data
55	70.804	6.593	92.979	51.75	44.999	Data
55	71.122	6.553	92.987	51.748	44.999	Data
56	70.804	6.593	92.979	51.75	44.999	Data
56	71.122	6.553	92.987	51.748	44.999	Data
57	70.804	6.593	92.979	51.75	44.999	Data
57	71.122	6.553	92.987	51.748	44.999	Data
58.5	71.549	6.485	92.978	51.741	45.007	Data
58.5	71.992	6.492	92.982	51.742	45.006	Data
60.5	69.079	6.509	92.995	51.744	45.006	Data
60.5	69.801	6.524	92.998	51.745	45.006	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.079	6.509	92.995	51.744	45.006	Data
61.75	69.801	6.524	92.998	51.745	45.006	Data
63	69.079	6.509	92.995	51.744	45.006	Data
63	69.801	6.524	92.998	51.745	45.006	Data
64	69.079	6.509	92.995	51.744	45.006	Data
64	69.801	6.524	92.998	51.745	45.006	Data

Table 180: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=51.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	72.275	6.495	92.971	52.745	45.006	Data
8	72.033	6.535	92.978	52.745	45.006	Data
30	68.861	6.525	93.008	52.746	44.995	Data
30	69.479	6.547	92.989	52.744	45.007	Data
30	70.413	6.498	93.008	52.742	45.003	Data
30	72.002	6.541	92.980	52.748	44.999	Data
30	72.275	6.495	92.971	52.745	45.006	Data
30	71.126	6.579	92.981	52.748	44.999	Data
30	72.033	6.535	92.978	52.745	45.006	Data
30	71.094	6.483	93.000	52.744	45.003	Data
30	68.810	6.534	93.002	52.745	44.995	Data
30	69.330	6.503	92.999	52.744	45.007	Data
42	70.413	6.498	93.008	52.742	45.003	Data
42	71.094	6.483	93.000	52.744	45.003	Data
43	70.413	6.498	93.008	52.742	45.003	Data
43	71.094	6.483	93.000	52.744	45.003	Data
44	70.413	6.498	93.008	52.742	45.003	Data
44	71.094	6.483	93.000	52.744	45.003	Data
45	70.413	6.498	93.008	52.742	45.003	Data
45	71.094	6.483	93.000	52.744	45.003	Data
46.5	72.033	6.535	92.978	52.745	45.006	Data
46.5	72.275	6.495	92.971	52.745	45.006	Data
48	68.810	6.534	93.002	52.745	44.995	Data
48	68.861	6.525	93.008	52.746	44.995	Data
49	68.810	6.534	93.002	52.745	44.995	Data
49	68.861	6.525	93.008	52.746	44.995	Data
50	68.810	6.534	93.002	52.745	44.995	Data
50	68.861	6.525	93.008	52.746	44.995	Data
51	68.810	6.534	93.002	52.745	44.995	Data
51	68.861	6.525	93.008	52.746	44.995	Data
52.5	72.275	6.495	92.971	52.745	45.006	Data
52.5	72.033	6.535	92.978	52.745	45.006	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	72.002	6.541	92.980	52.748	44.999	Data
54	71.126	6.579	92.981	52.748	44.999	Data
55	72.002	6.541	92.980	52.748	44.999	Data
55	71.126	6.579	92.981	52.748	44.999	Data
56	72.002	6.541	92.980	52.748	44.999	Data
56	71.126	6.579	92.981	52.748	44.999	Data
57	72.002	6.541	92.980	52.748	44.999	Data
57	71.126	6.579	92.981	52.748	44.999	Data
58.5	72.275	6.495	92.971	52.745	45.006	Data
58.5	72.033	6.535	92.978	52.745	45.006	Data
60.5	69.479	6.547	92.989	52.744	45.007	Data
60.5	69.330	6.503	92.999	52.744	45.007	Data
61.75	69.479	6.547	92.989	52.744	45.007	Data
61.75	69.330	6.503	92.999	52.744	45.007	Data
63	69.479	6.547	92.989	52.744	45.007	Data
63	69.330	6.503	92.999	52.744	45.007	Data
64	69.479	6.547	92.989	52.744	45.007	Data
64	69.330	6.503	92.999	52.744	45.007	Data

Table 181: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.266	6.491	92.977	53.737	45.006	Data
8	71.263	6.472	92.973	53.736	45.006	Data
30	71.453	6.534	92.982	53.734	44.999	Data
30	71.263	6.472	92.973	53.736	45.006	Data
30	68.505	6.537	92.995	53.74	45.014	Data
30	70.266	6.491	92.977	53.737	45.006	Data
30	70.922	6.525	93.005	53.739	45.003	Data
30	70.580	6.560	93.010	53.739	45.003	Data
30	69.042	6.546	93.004	53.737	44.995	Data
30	68.521	6.499	92.987	53.741	45.014	Data
30	69.079	6.567	93.006	53.738	44.995	Data
30	72.366	6.586	92.976	53.734	44.999	Data
42	70.922	6.525	93.005	53.739	45.003	Data
42	70.580	6.560	93.010	53.739	45.003	Data
43	70.922	6.525	93.005	53.739	45.003	Data
43	70.580	6.560	93.010	53.739	45.003	Data
44	70.922	6.525	93.005	53.739	45.003	Data
44	70.580	6.560	93.010	53.739	45.003	Data
45	70.922	6.525	93.005	53.739	45.003	Data
45	70.580	6.560	93.010	53.739	45.003	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.266	6.491	92.977	53.737	45.006	Data
46.5	71.263	6.472	92.973	53.736	45.006	Data
48	69.079	6.567	93.006	53.738	44.995	Data
48	69.042	6.546	93.004	53.737	44.995	Data
49	69.079	6.567	93.006	53.738	44.995	Data
49	69.042	6.546	93.004	53.737	44.995	Data
50	69.079	6.567	93.006	53.738	44.995	Data
50	69.042	6.546	93.004	53.737	44.995	Data
51	69.079	6.567	93.006	53.738	44.995	Data
51	69.042	6.546	93.004	53.737	44.995	Data
52.5	70.266	6.491	92.977	53.737	45.006	Data
52.5	71.263	6.472	92.973	53.736	45.006	Data
54	71.453	6.534	92.982	53.734	44.999	Data
54	72.366	6.586	92.976	53.734	44.999	Data
55	72.366	6.586	92.976	53.734	44.999	Data
55	71.453	6.534	92.982	53.734	44.999	Data
56	72.366	6.586	92.976	53.734	44.999	Data
56	71.453	6.534	92.982	53.734	44.999	Data
57	72.366	6.586	92.976	53.734	44.999	Data
57	71.453	6.534	92.982	53.734	44.999	Data
58.5	70.266	6.491	92.977	53.737	45.006	Data
58.5	71.263	6.472	92.973	53.736	45.006	Data
60.5	68.505	6.537	92.995	53.74	45.014	Data
60.5	68.521	6.499	92.987	53.741	45.014	Data
61.75	68.505	6.537	92.995	53.74	45.014	Data
61.75	68.521	6.499	92.987	53.741	45.014	Data
63	68.505	6.537	92.995	53.74	45.014	Data
63	68.521	6.499	92.987	53.741	45.014	Data
64	68.505	6.537	92.995	53.74	45.014	Data
64	68.521	6.499	92.987	53.741	45.014	Data

Table 182: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=53.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.515	6.492	92.977	54.741	45.006	Data
8	71.003	6.506	92.980	54.742	45.006	Data
30	68.921	6.565	93.006	54.739	44.995	Data
30	70.031	6.474	93.008	54.739	45.002	Data
30	71.003	6.506	92.980	54.742	45.006	Data
30	70.515	6.492	92.977	54.741	45.006	Data
30	68.846	6.551	92.995	54.738	45.013	Data
30	70.941	6.497	93.007	54.74	45.002	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.514	6.587	93.001	54.738	44.995	Data
30	68.410	6.514	92.988	54.739	45.013	Data
30	71.559	6.538	92.975	54.736	45.000	Data
30	71.388	6.551	92.978	54.736	44.999	Data
42	70.031	6.474	93.008	54.739	45.002	Data
42	70.941	6.497	93.007	54.74	45.002	Data
43	70.031	6.474	93.008	54.739	45.002	Data
43	70.941	6.497	93.007	54.74	45.002	Data
44	70.031	6.474	93.008	54.739	45.002	Data
44	70.941	6.497	93.007	54.74	45.002	Data
45	70.031	6.474	93.008	54.739	45.002	Data
45	70.941	6.497	93.007	54.74	45.002	Data
46.5	71.003	6.506	92.980	54.742	45.006	Data
46.5	70.515	6.492	92.977	54.741	45.006	Data
48	69.514	6.587	93.001	54.738	44.995	Data
48	68.921	6.565	93.006	54.739	44.995	Data
49	69.514	6.587	93.001	54.738	44.995	Data
49	68.921	6.565	93.006	54.739	44.995	Data
50	69.514	6.587	93.001	54.738	44.995	Data
50	68.921	6.565	93.006	54.739	44.995	Data
51	69.514	6.587	93.001	54.738	44.995	Data
51	68.921	6.565	93.006	54.739	44.995	Data
52.5	71.003	6.506	92.980	54.742	45.006	Data
52.5	70.515	6.492	92.977	54.741	45.006	Data
54	71.388	6.551	92.978	54.736	44.999	Data
54	71.559	6.538	92.975	54.736	45.000	Data
55	71.388	6.551	92.978	54.736	44.999	Data
55	71.559	6.538	92.975	54.736	45.000	Data
56	71.388	6.551	92.978	54.736	44.999	Data
56	71.559	6.538	92.975	54.736	45.000	Data
57	71.388	6.551	92.978	54.736	44.999	Data
57	71.559	6.538	92.975	54.736	45.000	Data
58.5	71.003	6.506	92.980	54.742	45.006	Data
58.5	70.515	6.492	92.977	54.741	45.006	Data
60.5	68.846	6.551	92.995	54.738	45.013	Data
60.5	68.410	6.514	92.988	54.739	45.013	Data
61.75	68.846	6.551	92.995	54.738	45.013	Data
61.75	68.410	6.514	92.988	54.739	45.013	Data
63	68.846	6.551	92.995	54.738	45.013	Data
63	68.410	6.514	92.988	54.739	45.013	Data
64	68.410	6.514	92.988	54.739	45.013	Data
64	68.846	6.551	92.995	54.738	45.013	Data

Table 183: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.049	6.461	92.975	55.745	45.006	Data
8	70.946	6.511	92.969	55.745	45.006	Data
30	71.049	6.461	92.975	55.745	45.006	Data
30	70.946	6.511	92.969	55.745	45.006	Data
30	70.687	6.546	93.007	55.738	45.003	Data
30	70.959	6.470	93.013	55.736	45.002	Data
30	69.754	6.555	93.010	55.738	44.994	Data
30	69.339	6.577	93.005	55.738	44.995	Data
30	68.937	6.567	92.999	55.742	45.013	Data
30	71.919	6.580	92.982	55.741	44.999	Data
30	68.736	6.518	92.994	55.742	45.012	Data
30	72.418	6.581	92.982	55.741	44.999	Data
42	70.687	6.546	93.007	55.738	45.003	Data
42	70.959	6.470	93.013	55.736	45.002	Data
43	70.687	6.546	93.007	55.738	45.003	Data
43	70.959	6.470	93.013	55.736	45.002	Data
44	70.687	6.546	93.007	55.738	45.003	Data
44	70.959	6.470	93.013	55.736	45.002	Data
45	70.687	6.546	93.007	55.738	45.003	Data
45	70.959	6.470	93.013	55.736	45.002	Data
46.5	71.049	6.461	92.975	55.745	45.006	Data
46.5	70.946	6.511	92.969	55.745	45.006	Data
48	69.754	6.555	93.010	55.738	44.994	Data
48	69.339	6.577	93.005	55.738	44.995	Data
49	69.754	6.555	93.010	55.738	44.994	Data
49	69.339	6.577	93.005	55.738	44.995	Data
50	69.754	6.555	93.010	55.738	44.994	Data
50	69.339	6.577	93.005	55.738	44.995	Data
51	69.754	6.555	93.010	55.738	44.994	Data
51	69.339	6.577	93.005	55.738	44.995	Data
52.5	71.049	6.461	92.975	55.745	45.006	Data
52.5	70.946	6.511	92.969	55.745	45.006	Data
54	71.919	6.580	92.982	55.741	44.999	Data
54	72.418	6.581	92.982	55.741	44.999	Data
55	71.919	6.580	92.982	55.741	44.999	Data
55	72.418	6.581	92.982	55.741	44.999	Data
56	71.919	6.580	92.982	55.741	44.999	Data
56	72.418	6.581	92.982	55.741	44.999	Data
57	71.919	6.580	92.982	55.741	44.999	Data
57	72.418	6.581	92.982	55.741	44.999	Data
58.5	71.049	6.461	92.975	55.745	45.006	Data
58.5	70.946	6.511	92.969	55.745	45.006	Data
60.5	68.937	6.567	92.999	55.742	45.013	Data
60.5	68.736	6.518	92.994	55.742	45.012	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	68.937	6.567	92.999	55.742	45.013	Data
61.75	68.736	6.518	92.994	55.742	45.012	Data
63	68.937	6.567	92.999	55.742	45.013	Data
63	68.736	6.518	92.994	55.742	45.012	Data
64	68.736	6.518	92.994	55.742	45.012	Data
64	68.937	6.567	92.999	55.742	45.013	Data

Table 184: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=55.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.037	6.483	92.981	56.744	45.005	Data
8	71.211	6.496	92.987	56.742	45.005	Data
30	71.334	6.548	93.017	56.741	45.002	Data
30	71.037	6.483	92.981	56.744	45.005	Data
30	70.386	6.534	93.018	56.74	45.002	Data
30	69.229	6.487	92.992	56.747	45.012	Data
30	71.423	6.544	92.983	56.739	44.999	Data
30	71.211	6.496	92.987	56.742	45.005	Data
30	69.003	6.524	92.996	56.746	45.011	Data
30	72.128	6.591	92.987	56.739	44.999	Data
30	69.371	6.585	93.002	56.744	44.995	Data
30	68.922	6.511	93.007	56.745	44.994	Data
42	71.334	6.548	93.017	56.741	45.002	Data
42	70.386	6.534	93.018	56.74	45.002	Data
43	71.334	6.548	93.017	56.741	45.002	Data
43	70.386	6.534	93.018	56.74	45.002	Data
44	71.334	6.548	93.017	56.741	45.002	Data
44	70.386	6.534	93.018	56.74	45.002	Data
45	71.334	6.548	93.017	56.741	45.002	Data
45	70.386	6.534	93.018	56.74	45.002	Data
46.5	71.037	6.483	92.981	56.744	45.005	Data
46.5	71.211	6.496	92.987	56.742	45.005	Data
48	68.922	6.511	93.007	56.745	44.994	Data
48	69.371	6.585	93.002	56.744	44.995	Data
49	68.922	6.511	93.007	56.745	44.994	Data
49	69.371	6.585	93.002	56.744	44.995	Data
50	68.922	6.511	93.007	56.745	44.994	Data
50	69.371	6.585	93.002	56.744	44.995	Data
51	68.922	6.511	93.007	56.745	44.994	Data
51	69.371	6.585	93.002	56.744	44.995	Data
52.5	71.211	6.496	92.987	56.742	45.005	Data
52.5	71.037	6.483	92.981	56.744	45.005	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	71.423	6.544	92.983	56.739	44.999	Data
54	72.128	6.591	92.987	56.739	44.999	Data
55	71.423	6.544	92.983	56.739	44.999	Data
55	72.128	6.591	92.987	56.739	44.999	Data
56	71.423	6.544	92.983	56.739	44.999	Data
56	72.128	6.591	92.987	56.739	44.999	Data
57	71.423	6.544	92.983	56.739	44.999	Data
57	72.128	6.591	92.987	56.739	44.999	Data
58.5	71.211	6.496	92.987	56.742	45.005	Data
58.5	71.037	6.483	92.981	56.744	45.005	Data
60.5	69.003	6.524	92.996	56.746	45.011	Data
60.5	69.229	6.487	92.992	56.747	45.012	Data
61.75	69.003	6.524	92.996	56.746	45.011	Data
61.75	69.229	6.487	92.992	56.747	45.012	Data
63	69.003	6.524	92.996	56.746	45.011	Data
63	69.229	6.487	92.992	56.747	45.012	Data
64	69.003	6.524	92.996	56.746	45.011	Data
64	69.229	6.487	92.992	56.747	45.012	Data

Table 185: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.277	6.508	92.974	57.75	45.005	Data
8	70.377	6.496	92.975	57.748	45.005	Data
30	69.564	6.543	92.998	57.755	45.011	Data
30	70.377	6.496	92.975	57.748	45.005	Data
30	71.262	6.506	93.015	57.757	45.001	Data
30	72.431	6.557	92.977	57.755	44.999	Data
30	70.145	6.583	93.003	57.76	44.996	Data
30	70.277	6.508	92.974	57.75	45.005	Data
30	72.205	6.586	92.985	57.754	44.999	Data
30	69.914	6.541	93.005	57.759	44.996	Data
30	70.489	6.540	93.007	57.756	45.001	Data
30	69.164	6.558	93.000	57.755	45.011	Data
42	71.262	6.506	93.015	57.757	45.001	Data
42	70.489	6.540	93.007	57.756	45.001	Data
43	71.262	6.506	93.015	57.757	45.001	Data
43	70.489	6.540	93.007	57.756	45.001	Data
44	71.262	6.506	93.015	57.757	45.001	Data
44	70.489	6.540	93.007	57.756	45.001	Data
45	71.262	6.506	93.015	57.757	45.001	Data
45	70.489	6.540	93.007	57.756	45.001	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.377	6.496	92.975	57.748	45.005	Data
46.5	70.277	6.508	92.974	57.75	45.005	Data
48	69.914	6.541	93.005	57.759	44.996	Data
48	70.145	6.583	93.003	57.76	44.996	Data
49	69.914	6.541	93.005	57.759	44.996	Data
49	70.145	6.583	93.003	57.76	44.996	Data
50	69.914	6.541	93.005	57.759	44.996	Data
50	70.145	6.583	93.003	57.76	44.996	Data
51	69.914	6.541	93.005	57.759	44.996	Data
51	70.145	6.583	93.003	57.76	44.996	Data
52.5	70.377	6.496	92.975	57.748	45.005	Data
52.5	70.277	6.508	92.974	57.75	45.005	Data
54	72.205	6.586	92.985	57.754	44.999	Data
54	72.431	6.557	92.977	57.755	44.999	Data
55	72.205	6.586	92.985	57.754	44.999	Data
55	72.431	6.557	92.977	57.755	44.999	Data
56	72.205	6.586	92.985	57.754	44.999	Data
56	72.431	6.557	92.977	57.755	44.999	Data
57	72.205	6.586	92.985	57.754	44.999	Data
57	72.431	6.557	92.977	57.755	44.999	Data
58.5	70.377	6.496	92.975	57.748	45.005	Data
58.5	70.277	6.508	92.974	57.75	45.005	Data
60.5	69.164	6.558	93.000	57.755	45.011	Data
60.5	69.564	6.543	92.998	57.755	45.011	Data
61.75	69.164	6.558	93.000	57.755	45.011	Data
61.75	69.564	6.543	92.998	57.755	45.011	Data
63	69.164	6.558	93.000	57.755	45.011	Data
63	69.564	6.543	92.998	57.755	45.011	Data
64	69.164	6.558	93.000	57.755	45.011	Data
64	69.564	6.543	92.998	57.755	45.011	Data

Table 186: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=57.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.793	6.471	92.976	58.754	45.005	Data
8	70.586	6.495	92.979	58.754	45.005	Data
30	70.586	6.495	92.979	58.754	45.005	Data
30	70.793	6.471	92.976	58.754	45.005	Data
30	69.815	6.537	92.993	58.752	45.011	Data
30	69.414	6.566	93.002	58.757	44.996	Data
30	71.192	6.513	93.007	58.754	45.001	Data
30	70.061	6.518	93.002	58.751	45.010	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.894	6.508	92.982	58.748	44.999	Data
30	71.519	6.509	93.007	58.753	45.002	Data
30	69.060	6.561	92.999	58.755	44.996	Data
30	72.292	6.631	92.984	58.75	44.999	Data
42	71.519	6.509	93.007	58.753	45.002	Data
42	71.192	6.513	93.007	58.754	45.001	Data
43	71.519	6.509	93.007	58.753	45.002	Data
43	71.192	6.513	93.007	58.754	45.001	Data
44	71.519	6.509	93.007	58.753	45.002	Data
44	71.192	6.513	93.007	58.754	45.001	Data
45	71.519	6.509	93.007	58.753	45.002	Data
45	71.192	6.513	93.007	58.754	45.001	Data
46.5	70.586	6.495	92.979	58.754	45.005	Data
46.5	70.793	6.471	92.976	58.754	45.005	Data
48	69.060	6.561	92.999	58.755	44.996	Data
48	69.414	6.566	93.002	58.757	44.996	Data
49	69.060	6.561	92.999	58.755	44.996	Data
49	69.414	6.566	93.002	58.757	44.996	Data
50	69.060	6.561	92.999	58.755	44.996	Data
50	69.414	6.566	93.002	58.757	44.996	Data
51	69.060	6.561	92.999	58.755	44.996	Data
51	69.414	6.566	93.002	58.757	44.996	Data
52.5	70.586	6.495	92.979	58.754	45.005	Data
52.5	70.793	6.471	92.976	58.754	45.005	Data
54	72.292	6.631	92.984	58.75	44.999	Data
54	71.894	6.508	92.982	58.748	44.999	Data
55	72.292	6.631	92.984	58.75	44.999	Data
55	71.894	6.508	92.982	58.748	44.999	Data
56	72.292	6.631	92.984	58.75	44.999	Data
56	71.894	6.508	92.982	58.748	44.999	Data
57	72.292	6.631	92.984	58.75	44.999	Data
57	71.894	6.508	92.982	58.748	44.999	Data
58.5	70.793	6.471	92.976	58.754	45.005	Data
58.5	70.586	6.495	92.979	58.754	45.005	Data
60.5	69.815	6.537	92.993	58.752	45.011	Data
60.5	70.061	6.518	93.002	58.751	45.010	Data
61.75	69.815	6.537	92.993	58.752	45.011	Data
61.75	70.061	6.518	93.002	58.751	45.010	Data
63	70.061	6.518	93.002	58.751	45.010	Data
63	69.815	6.537	92.993	58.752	45.011	Data
64	69.815	6.537	92.993	58.752	45.011	Data
64	70.061	6.518	93.002	58.751	45.010	Data

Table 187: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.113	6.501	92.984	59.748	45.005	Data
8	71.572	6.438	92.983	59.749	45.004	Data
30	70.113	6.501	92.984	59.748	45.005	Data
30	71.388	6.501	93.010	59.753	45.000	Data
30	71.572	6.438	92.983	59.749	45.004	Data
30	69.820	6.560	92.998	59.75	45.010	Data
30	69.824	6.540	93.001	59.754	44.995	Data
30	69.902	6.544	93.002	59.75	45.009	Data
30	71.442	6.546	92.987	59.754	44.999	Data
30	72.491	6.565	92.982	59.754	44.999	Data
30	70.078	6.534	93.001	59.755	44.995	Data
30	71.527	6.533	93.010	59.753	45.000	Data
42	71.527	6.533	93.010	59.753	45.000	Data
42	71.388	6.501	93.010	59.753	45.000	Data
43	71.527	6.533	93.010	59.753	45.000	Data
43	71.388	6.501	93.010	59.753	45.000	Data
44	71.527	6.533	93.010	59.753	45.000	Data
44	71.388	6.501	93.010	59.753	45.000	Data
45	71.527	6.533	93.010	59.753	45.000	Data
45	71.388	6.501	93.010	59.753	45.000	Data
46.5	71.572	6.438	92.983	59.749	45.004	Data
46.5	70.113	6.501	92.984	59.748	45.005	Data
48	70.078	6.534	93.001	59.755	44.995	Data
48	69.824	6.540	93.001	59.754	44.995	Data
49	70.078	6.534	93.001	59.755	44.995	Data
49	69.824	6.540	93.001	59.754	44.995	Data
50	70.078	6.534	93.001	59.755	44.995	Data
50	69.824	6.540	93.001	59.754	44.995	Data
51	70.078	6.534	93.001	59.755	44.995	Data
51	69.824	6.540	93.001	59.754	44.995	Data
52.5	70.113	6.501	92.984	59.748	45.005	Data
52.5	71.572	6.438	92.983	59.749	45.004	Data
54	71.442	6.546	92.987	59.754	44.999	Data
54	72.491	6.565	92.982	59.754	44.999	Data
55	71.442	6.546	92.987	59.754	44.999	Data
55	72.491	6.565	92.982	59.754	44.999	Data
56	71.442	6.546	92.987	59.754	44.999	Data
56	72.491	6.565	92.982	59.754	44.999	Data
57	71.442	6.546	92.987	59.754	44.999	Data
57	72.491	6.565	92.982	59.754	44.999	Data
58.5	70.113	6.501	92.984	59.748	45.005	Data
58.5	71.572	6.438	92.983	59.749	45.004	Data
60.5	69.902	6.544	93.002	59.75	45.009	Data
60.5	69.820	6.560	92.998	59.75	45.010	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.902	6.544	93.002	59.75	45.009	Data
61.75	69.820	6.560	92.998	59.75	45.010	Data
63	69.902	6.544	93.002	59.75	45.009	Data
63	69.820	6.560	92.998	59.75	45.010	Data
64	69.902	6.544	93.002	59.75	45.009	Data
64	69.820	6.560	92.998	59.75	45.010	Data

Table 188: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=59.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.531	6.487	92.964	60.757	45.004	Data
8	70.771	6.487	92.970	60.757	45.003	Data
30	71.404	6.534	93.007	60.758	44.999	Data
30	69.952	6.527	93.004	60.76	44.995	Data
30	69.396	6.513	92.994	60.762	44.991	Data
30	71.550	6.570	93.008	60.76	45.000	Data
30	71.733	6.548	92.979	60.762	44.998	Data
30	72.433	6.632	92.978	60.762	44.998	Data
30	70.771	6.487	92.970	60.757	45.003	Data
30	69.907	6.525	92.992	60.764	44.990	Data
30	69.698	6.609	93.001	60.759	44.997	Data
30	70.531	6.487	92.964	60.757	45.004	Data
42	71.550	6.570	93.008	60.76	45.000	Data
42	71.404	6.534	93.007	60.758	44.999	Data
43	71.550	6.570	93.008	60.76	45.000	Data
43	71.404	6.534	93.007	60.758	44.999	Data
44	71.550	6.570	93.008	60.76	45.000	Data
44	71.404	6.534	93.007	60.758	44.999	Data
45	71.550	6.570	93.008	60.76	45.000	Data
45	71.404	6.534	93.007	60.758	44.999	Data
46.5	70.771	6.487	92.970	60.757	45.003	Data
46.5	70.531	6.487	92.964	60.757	45.004	Data
48	69.952	6.527	93.004	60.76	44.995	Data
48	69.698	6.609	93.001	60.759	44.997	Data
49	69.698	6.609	93.001	60.759	44.997	Data
49	69.952	6.527	93.004	60.76	44.995	Data
50	69.698	6.609	93.001	60.759	44.997	Data
50	69.952	6.527	93.004	60.76	44.995	Data
51	69.698	6.609	93.001	60.759	44.997	Data
51	69.952	6.527	93.004	60.76	44.995	Data
52.5	70.771	6.487	92.970	60.757	45.003	Data
52.5	70.531	6.487	92.964	60.757	45.004	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	71.733	6.548	92.979	60.762	44.998	Data
54	72.433	6.632	92.978	60.762	44.998	Data
55	71.733	6.548	92.979	60.762	44.998	Data
55	72.433	6.632	92.978	60.762	44.998	Data
56	71.733	6.548	92.979	60.762	44.998	Data
56	72.433	6.632	92.978	60.762	44.998	Data
57	71.733	6.548	92.979	60.762	44.998	Data
57	72.433	6.632	92.978	60.762	44.998	Data
58.5	70.771	6.487	92.970	60.757	45.003	Data
58.5	70.531	6.487	92.964	60.757	45.004	Data
60.5	69.396	6.513	92.994	60.762	44.991	Data
60.5	69.907	6.525	92.992	60.764	44.990	Data
61.75	69.396	6.513	92.994	60.762	44.991	Data
61.75	69.907	6.525	92.992	60.764	44.990	Data
63	69.907	6.525	92.992	60.764	44.990	Data
63	69.396	6.513	92.994	60.762	44.991	Data
64	69.907	6.525	92.992	60.764	44.990	Data
64	69.396	6.513	92.994	60.762	44.991	Data

Table 189: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA 8 +6ft — VG at span y=60.5 (in)

D.14. Horizontal VG vortex sweep at height z=45.5, q=70, α_{VG}=8, α_W=7, RO-tip+9ft

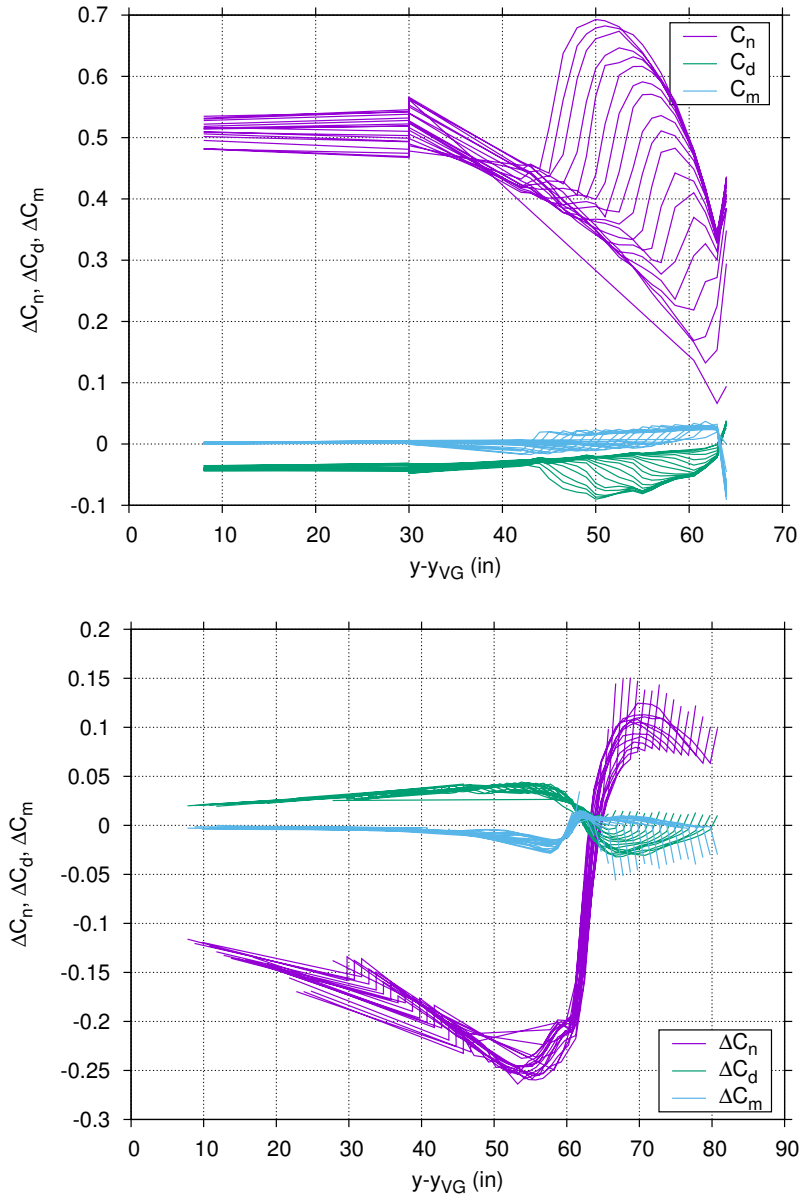

Figure 67. VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — (Data)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.293	6.510	129.051	43.743	45.495	Data
8	69.457	6.561	129.055	43.743	45.495	Data
30	70.153	6.541	129.044	43.748	45.501	Data
30	69.729	6.526	129.042	43.757	45.497	Data
30	69.778	6.499	129.059	43.747	45.488	Data
30	69.457	6.561	129.055	43.743	45.495	Data
30	69.151	6.499	129.059	43.75	45.488	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.293	6.510	129.051	43.743	45.495	Data
30	69.935	6.521	129.044	43.748	45.501	Data
30	69.397	6.525	129.033	43.757	45.515	Data
30	69.356	6.509	129.037	43.756	45.497	Data
30	69.754	6.511	129.031	43.756	45.515	Data
42	69.397	6.525	129.033	43.757	45.515	Data
42	69.754	6.511	129.031	43.756	45.515	Data
43	69.754	6.511	129.031	43.756	45.515	Data
43	69.397	6.525	129.033	43.757	45.515	Data
44	69.754	6.511	129.031	43.756	45.515	Data
44	69.397	6.525	129.033	43.757	45.515	Data
45	69.397	6.525	129.033	43.757	45.515	Data
45	69.754	6.511	129.031	43.756	45.515	Data
46.5	69.293	6.510	129.051	43.743	45.495	Data
46.5	69.457	6.561	129.055	43.743	45.495	Data
48	69.729	6.526	129.042	43.757	45.497	Data
48	69.356	6.509	129.037	43.756	45.497	Data
49	69.729	6.526	129.042	43.757	45.497	Data
49	69.356	6.509	129.037	43.756	45.497	Data
50	69.729	6.526	129.042	43.757	45.497	Data
50	69.356	6.509	129.037	43.756	45.497	Data
51	69.729	6.526	129.042	43.757	45.497	Data
51	69.356	6.509	129.037	43.756	45.497	Data
52.5	69.293	6.510	129.051	43.743	45.495	Data
52.5	69.457	6.561	129.055	43.743	45.495	Data
54	69.151	6.499	129.059	43.75	45.488	Data
54	69.778	6.499	129.059	43.747	45.488	Data
55	69.151	6.499	129.059	43.75	45.488	Data
55	69.778	6.499	129.059	43.747	45.488	Data
56	69.778	6.499	129.059	43.747	45.488	Data
56	69.151	6.499	129.059	43.75	45.488	Data
57	69.778	6.499	129.059	43.747	45.488	Data
57	69.151	6.499	129.059	43.75	45.488	Data
58.5	69.293	6.510	129.051	43.743	45.495	Data
58.5	69.457	6.561	129.055	43.743	45.495	Data
60.5	70.153	6.541	129.044	43.748	45.501	Data
60.5	69.935	6.521	129.044	43.748	45.501	Data
61.75	70.153	6.541	129.044	43.748	45.501	Data
61.75	69.935	6.521	129.044	43.748	45.501	Data
63	70.153	6.541	129.044	43.748	45.501	Data
63	69.935	6.521	129.044	43.748	45.501	Data
64	70.153	6.541	129.044	43.748	45.501	Data
64	69.935	6.521	129.044	43.748	45.501	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 190: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.873	6.559	129.045	44.742	45.493	Data
8	69.636	6.470	129.044	44.743	45.492	Data
30	69.873	6.559	129.045	44.742	45.493	Data
30	68.954	6.504	129.046	44.741	45.489	Data
30	69.636	6.470	129.044	44.743	45.492	Data
30	70.069	6.493	129.046	44.744	45.501	Data
30	69.343	6.522	129.035	44.744	45.513	Data
30	70.355	6.488	129.043	44.743	45.498	Data
30	70.095	6.494	129.051	44.746	45.501	Data
30	69.179	6.462	129.055	44.742	45.488	Data
30	69.839	6.546	129.039	44.745	45.514	Data
30	70.034	6.553	129.038	44.745	45.498	Data
42	69.343	6.522	129.035	44.744	45.513	Data
42	69.839	6.546	129.039	44.745	45.514	Data
43	69.343	6.522	129.035	44.744	45.513	Data
43	69.839	6.546	129.039	44.745	45.514	Data
44	69.343	6.522	129.035	44.744	45.513	Data
44	69.839	6.546	129.039	44.745	45.514	Data
45	69.343	6.522	129.035	44.744	45.513	Data
45	69.839	6.546	129.039	44.745	45.514	Data
46.5	69.873	6.559	129.045	44.742	45.493	Data
46.5	69.636	6.470	129.044	44.743	45.492	Data
48	70.355	6.488	129.043	44.743	45.498	Data
48	70.034	6.553	129.038	44.745	45.498	Data
49	70.355	6.488	129.043	44.743	45.498	Data
49	70.034	6.553	129.038	44.745	45.498	Data
50	70.355	6.488	129.043	44.743	45.498	Data
50	70.034	6.553	129.038	44.745	45.498	Data
51	70.355	6.488	129.043	44.743	45.498	Data
51	70.034	6.553	129.038	44.745	45.498	Data
52.5	69.636	6.470	129.044	44.743	45.492	Data
52.5	69.873	6.559	129.045	44.742	45.493	Data
54	68.954	6.504	129.046	44.741	45.489	Data
54	69.179	6.462	129.055	44.742	45.488	Data
55	68.954	6.504	129.046	44.741	45.489	Data
55	69.179	6.462	129.055	44.742	45.488	Data
56	68.954	6.504	129.046	44.741	45.489	Data
56	69.179	6.462	129.055	44.742	45.488	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	68.954	6.504	129.046	44.741	45.489	Data
57	69.179	6.462	129.055	44.742	45.488	Data
58.5	69.636	6.470	129.044	44.743	45.492	Data
58.5	69.873	6.559	129.045	44.742	45.493	Data
60.5	70.069	6.493	129.046	44.744	45.501	Data
60.5	70.095	6.494	129.051	44.746	45.501	Data
61.75	70.069	6.493	129.046	44.744	45.501	Data
61.75	70.095	6.494	129.051	44.746	45.501	Data
63	70.069	6.493	129.046	44.744	45.501	Data
63	70.095	6.494	129.051	44.746	45.501	Data
64	70.069	6.493	129.046	44.744	45.501	Data
64	70.095	6.494	129.051	44.746	45.501	Data

Table 191: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.291	6.506	129.049	45.741	45.493	Data
8	70.468	6.494	129.044	45.74	45.493	Data
30	70.468	6.494	129.044	45.74	45.493	Data
30	69.336	6.535	129.052	45.749	45.489	Data
30	69.821	6.504	129.036	45.738	45.514	Data
30	69.336	6.581	129.047	45.739	45.496	Data
30	69.980	6.517	129.052	45.749	45.489	Data
30	70.107	6.542	129.040	45.739	45.499	Data
30	69.553	6.576	129.045	45.739	45.501	Data
30	69.417	6.514	129.032	45.74	45.514	Data
30	70.291	6.506	129.049	45.741	45.493	Data
30	69.973	6.496	129.040	45.738	45.501	Data
42	69.821	6.504	129.036	45.738	45.514	Data
42	69.417	6.514	129.032	45.74	45.514	Data
43	69.821	6.504	129.036	45.738	45.514	Data
43	69.417	6.514	129.032	45.74	45.514	Data
44	69.417	6.514	129.032	45.74	45.514	Data
44	69.821	6.504	129.036	45.738	45.514	Data
45	69.417	6.514	129.032	45.74	45.514	Data
45	69.821	6.504	129.036	45.738	45.514	Data
46.5	70.468	6.494	129.044	45.74	45.493	Data
46.5	70.291	6.506	129.049	45.741	45.493	Data
48	69.336	6.581	129.047	45.739	45.496	Data
48	70.107	6.542	129.040	45.739	45.499	Data
49	69.336	6.581	129.047	45.739	45.496	Data
49	70.107	6.542	129.040	45.739	45.499	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	69.336	6.581	129.047	45.739	45.496	Data
50	70.107	6.542	129.040	45.739	45.499	Data
51	70.107	6.542	129.040	45.739	45.499	Data
51	69.336	6.581	129.047	45.739	45.496	Data
52.5	70.468	6.494	129.044	45.74	45.493	Data
52.5	70.291	6.506	129.049	45.741	45.493	Data
54	69.336	6.535	129.052	45.749	45.489	Data
54	69.980	6.517	129.052	45.749	45.489	Data
55	69.336	6.535	129.052	45.749	45.489	Data
55	69.980	6.517	129.052	45.749	45.489	Data
56	69.336	6.535	129.052	45.749	45.489	Data
56	69.980	6.517	129.052	45.749	45.489	Data
57	69.336	6.535	129.052	45.749	45.489	Data
57	69.980	6.517	129.052	45.749	45.489	Data
58.5	70.468	6.494	129.044	45.74	45.493	Data
58.5	70.291	6.506	129.049	45.741	45.493	Data
60.5	69.553	6.576	129.045	45.739	45.501	Data
60.5	69.973	6.496	129.040	45.738	45.501	Data
61.75	69.553	6.576	129.045	45.739	45.501	Data
61.75	69.973	6.496	129.040	45.738	45.501	Data
63	69.553	6.576	129.045	45.739	45.501	Data
63	69.973	6.496	129.040	45.738	45.501	Data
64	69.553	6.576	129.045	45.739	45.501	Data
64	69.973	6.496	129.040	45.738	45.501	Data

Table 192: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=45.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.832	6.498	129.042	46.733	45.493	Data
8	70.505	6.480	129.043	46.733	45.494	Data
30	70.505	6.480	129.043	46.733	45.494	Data
30	70.832	6.498	129.042	46.733	45.493	Data
30	69.960	6.559	129.036	46.739	45.497	Data
30	69.342	6.577	129.058	46.733	45.488	Data
30	69.612	6.566	129.037	46.74	45.514	Data
30	70.775	6.503	129.044	46.742	45.501	Data
30	70.283	6.598	129.044	46.74	45.501	Data
30	70.174	6.517	129.037	46.74	45.496	Data
30	69.373	6.529	129.035	46.74	45.513	Data
30	70.225	6.532	129.059	46.733	45.488	Data
42	69.612	6.566	129.037	46.74	45.514	Data
42	69.373	6.529	129.035	46.74	45.513	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	69.612	6.566	129.037	46.74	45.514	Data
43	69.373	6.529	129.035	46.74	45.513	Data
44	69.612	6.566	129.037	46.74	45.514	Data
44	69.373	6.529	129.035	46.74	45.513	Data
45	69.612	6.566	129.037	46.74	45.514	Data
45	69.373	6.529	129.035	46.74	45.513	Data
46.5	70.505	6.480	129.043	46.733	45.494	Data
46.5	70.832	6.498	129.042	46.733	45.493	Data
48	69.960	6.559	129.036	46.739	45.497	Data
48	70.174	6.517	129.037	46.74	45.496	Data
49	69.960	6.559	129.036	46.739	45.497	Data
49	70.174	6.517	129.037	46.74	45.496	Data
50	69.960	6.559	129.036	46.739	45.497	Data
50	70.174	6.517	129.037	46.74	45.496	Data
51	69.960	6.559	129.036	46.739	45.497	Data
51	70.174	6.517	129.037	46.74	45.496	Data
52.5	70.832	6.498	129.042	46.733	45.493	Data
52.5	70.505	6.480	129.043	46.733	45.494	Data
54	70.225	6.532	129.059	46.733	45.488	Data
54	69.342	6.577	129.058	46.733	45.488	Data
55	70.225	6.532	129.059	46.733	45.488	Data
55	69.342	6.577	129.058	46.733	45.488	Data
56	70.225	6.532	129.059	46.733	45.488	Data
56	69.342	6.577	129.058	46.733	45.488	Data
57	70.225	6.532	129.059	46.733	45.488	Data
57	69.342	6.577	129.058	46.733	45.488	Data
58.5	70.832	6.498	129.042	46.733	45.493	Data
58.5	70.505	6.480	129.043	46.733	45.494	Data
60.5	70.775	6.503	129.044	46.742	45.501	Data
60.5	70.283	6.598	129.044	46.74	45.501	Data
61.75	70.775	6.503	129.044	46.742	45.501	Data
61.75	70.283	6.598	129.044	46.74	45.501	Data
63	70.775	6.503	129.044	46.742	45.501	Data
63	70.283	6.598	129.044	46.74	45.501	Data
64	70.775	6.503	129.044	46.742	45.501	Data
64	70.283	6.598	129.044	46.74	45.501	Data

Table 193: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.422	6.463	129.044	47.741	45.492	Data
8	69.923	6.557	129.043	47.74	45.492	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.367	6.521	129.038	47.743	45.498	Data
30	68.940	6.523	129.059	47.745	45.488	Data
30	70.511	6.586	129.041	47.743	45.496	Data
30	70.422	6.463	129.044	47.741	45.492	Data
30	69.923	6.557	129.043	47.74	45.492	Data
30	69.504	6.555	129.039	47.74	45.514	Data
30	70.439	6.527	129.042	47.743	45.501	Data
30	69.295	6.607	129.059	47.745	45.488	Data
30	70.363	6.528	129.047	47.742	45.501	Data
30	68.885	6.523	129.041	47.739	45.515	Data
42	69.504	6.555	129.039	47.74	45.514	Data
42	68.885	6.523	129.041	47.739	45.515	Data
43	69.504	6.555	129.039	47.74	45.514	Data
43	68.885	6.523	129.041	47.739	45.515	Data
44	69.504	6.555	129.039	47.74	45.514	Data
44	68.885	6.523	129.041	47.739	45.515	Data
45	69.504	6.555	129.039	47.74	45.514	Data
45	68.885	6.523	129.041	47.739	45.515	Data
46.5	69.923	6.557	129.043	47.74	45.492	Data
46.5	70.422	6.463	129.044	47.741	45.492	Data
48	70.511	6.586	129.041	47.743	45.496	Data
48	70.367	6.521	129.038	47.743	45.498	Data
49	70.367	6.521	129.038	47.743	45.498	Data
49	70.511	6.586	129.041	47.743	45.496	Data
50	70.367	6.521	129.038	47.743	45.498	Data
50	70.511	6.586	129.041	47.743	45.496	Data
51	70.367	6.521	129.038	47.743	45.498	Data
51	70.511	6.586	129.041	47.743	45.496	Data
52.5	69.923	6.557	129.043	47.74	45.492	Data
52.5	70.422	6.463	129.044	47.741	45.492	Data
54	68.940	6.523	129.059	47.745	45.488	Data
54	69.295	6.607	129.059	47.745	45.488	Data
55	69.295	6.607	129.059	47.745	45.488	Data
55	68.940	6.523	129.059	47.745	45.488	Data
56	69.295	6.607	129.059	47.745	45.488	Data
56	68.940	6.523	129.059	47.745	45.488	Data
57	69.295	6.607	129.059	47.745	45.488	Data
57	68.940	6.523	129.059	47.745	45.488	Data
58.5	69.923	6.557	129.043	47.74	45.492	Data
58.5	70.422	6.463	129.044	47.741	45.492	Data
60.5	70.363	6.528	129.047	47.742	45.501	Data
60.5	70.439	6.527	129.042	47.743	45.501	Data
61.75	70.363	6.528	129.047	47.742	45.501	Data
61.75	70.439	6.527	129.042	47.743	45.501	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	70.439	6.527	129.042	47.743	45.501	Data
63	70.363	6.528	129.047	47.742	45.501	Data
64	70.439	6.527	129.042	47.743	45.501	Data
64	70.363	6.528	129.047	47.742	45.501	Data

Table 194: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=47.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.863	6.519	129.047	48.741	45.493	Data
8	70.720	6.519	129.041	48.74	45.492	Data
30	70.720	6.519	129.041	48.74	45.492	Data
30	71.088	6.505	129.040	48.748	45.496	Data
30	70.863	6.519	129.047	48.741	45.493	Data
30	70.695	6.538	129.038	48.748	45.496	Data
30	70.694	6.506	129.041	48.748	45.502	Data
30	68.727	6.492	129.058	48.753	45.488	Data
30	69.540	6.515	129.033	48.749	45.513	Data
30	71.145	6.588	129.041	48.749	45.502	Data
30	69.055	6.511	129.053	48.753	45.489	Data
30	68.662	6.567	129.043	48.747	45.514	Data
42	69.540	6.515	129.033	48.749	45.513	Data
42	68.662	6.567	129.043	48.747	45.514	Data
43	69.540	6.515	129.033	48.749	45.513	Data
43	68.662	6.567	129.043	48.747	45.514	Data
44	69.540	6.515	129.033	48.749	45.513	Data
44	68.662	6.567	129.043	48.747	45.514	Data
45	69.540	6.515	129.033	48.749	45.513	Data
45	68.662	6.567	129.043	48.747	45.514	Data
46.5	70.863	6.519	129.047	48.741	45.493	Data
46.5	70.720	6.519	129.041	48.74	45.492	Data
48	71.088	6.505	129.040	48.748	45.496	Data
48	70.695	6.538	129.038	48.748	45.496	Data
49	71.088	6.505	129.040	48.748	45.496	Data
49	70.695	6.538	129.038	48.748	45.496	Data
50	70.695	6.538	129.038	48.748	45.496	Data
50	71.088	6.505	129.040	48.748	45.496	Data
51	70.695	6.538	129.038	48.748	45.496	Data
51	71.088	6.505	129.040	48.748	45.496	Data
52.5	70.863	6.519	129.047	48.741	45.493	Data
52.5	70.720	6.519	129.041	48.74	45.492	Data
54	68.727	6.492	129.058	48.753	45.488	Data
54	69.055	6.511	129.053	48.753	45.489	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	68.727	6.492	129.058	48.753	45.488	Data
55	69.055	6.511	129.053	48.753	45.489	Data
56	68.727	6.492	129.058	48.753	45.488	Data
56	69.055	6.511	129.053	48.753	45.489	Data
57	69.055	6.511	129.053	48.753	45.489	Data
57	68.727	6.492	129.058	48.753	45.488	Data
58.5	70.863	6.519	129.047	48.741	45.493	Data
58.5	70.720	6.519	129.041	48.74	45.492	Data
60.5	71.145	6.588	129.041	48.749	45.502	Data
60.5	70.694	6.506	129.041	48.748	45.502	Data
61.75	71.145	6.588	129.041	48.749	45.502	Data
61.75	70.694	6.506	129.041	48.748	45.502	Data
63	71.145	6.588	129.041	48.749	45.502	Data
63	70.694	6.506	129.041	48.748	45.502	Data
64	71.145	6.588	129.041	48.749	45.502	Data
64	70.694	6.506	129.041	48.748	45.502	Data

Table 195: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.482	6.531	129.044	49.75	45.492	Data
8	70.978	6.531	129.044	49.748	45.492	Data
30	69.251	6.535	129.032	49.751	45.513	Data
30	70.482	6.531	129.044	49.75	45.492	Data
30	70.510	6.508	129.040	49.749	45.502	Data
30	71.083	6.579	129.035	49.747	45.496	Data
30	70.978	6.531	129.044	49.748	45.492	Data
30	70.682	6.556	129.039	49.749	45.501	Data
30	69.168	6.489	129.054	49.755	45.488	Data
30	70.899	6.522	129.033	49.745	45.497	Data
30	69.691	6.559	129.057	49.756	45.488	Data
30	69.177	6.551	129.039	49.75	45.512	Data
42	69.251	6.535	129.032	49.751	45.513	Data
42	69.177	6.551	129.039	49.75	45.512	Data
43	69.251	6.535	129.032	49.751	45.513	Data
43	69.177	6.551	129.039	49.75	45.512	Data
44	69.251	6.535	129.032	49.751	45.513	Data
44	69.177	6.551	129.039	49.75	45.512	Data
45	69.251	6.535	129.032	49.751	45.513	Data
45	69.177	6.551	129.039	49.75	45.512	Data
46.5	70.482	6.531	129.044	49.75	45.492	Data
46.5	70.978	6.531	129.044	49.748	45.492	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	70.899	6.522	129.033	49.745	45.497	Data
48	71.083	6.579	129.035	49.747	45.496	Data
49	70.899	6.522	129.033	49.745	45.497	Data
49	71.083	6.579	129.035	49.747	45.496	Data
50	71.083	6.579	129.035	49.747	45.496	Data
50	70.899	6.522	129.033	49.745	45.497	Data
51	70.899	6.522	129.033	49.745	45.497	Data
51	71.083	6.579	129.035	49.747	45.496	Data
52.5	70.978	6.531	129.044	49.748	45.492	Data
52.5	70.482	6.531	129.044	49.75	45.492	Data
54	69.691	6.559	129.057	49.756	45.488	Data
54	69.168	6.489	129.054	49.755	45.488	Data
55	69.691	6.559	129.057	49.756	45.488	Data
55	69.168	6.489	129.054	49.755	45.488	Data
56	69.168	6.489	129.054	49.755	45.488	Data
56	69.691	6.559	129.057	49.756	45.488	Data
57	69.168	6.489	129.054	49.755	45.488	Data
57	69.691	6.559	129.057	49.756	45.488	Data
58.5	70.978	6.531	129.044	49.748	45.492	Data
58.5	70.482	6.531	129.044	49.75	45.492	Data
60.5	70.682	6.556	129.039	49.749	45.501	Data
60.5	70.510	6.508	129.040	49.749	45.502	Data
61.75	70.682	6.556	129.039	49.749	45.501	Data
61.75	70.510	6.508	129.040	49.749	45.502	Data
63	70.682	6.556	129.039	49.749	45.501	Data
63	70.510	6.508	129.040	49.749	45.502	Data
64	70.682	6.556	129.039	49.749	45.501	Data
64	70.510	6.508	129.040	49.749	45.502	Data

Table 196: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=49.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.317	6.499	129.040	50.743	45.494	Data
8	71.246	6.514	129.040	50.742	45.492	Data
30	70.529	6.491	129.036	50.747	45.498	Data
30	71.317	6.499	129.040	50.743	45.494	Data
30	69.823	6.564	129.041	50.751	45.513	Data
30	71.246	6.514	129.040	50.742	45.492	Data
30	71.187	6.555	129.035	50.746	45.497	Data
30	70.485	6.468	129.033	50.748	45.501	Data
30	70.847	6.545	129.041	50.747	45.501	Data
30	69.363	6.555	129.054	50.745	45.488	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.671	6.552	129.060	50.744	45.488	Data
30	69.343	6.529	129.040	50.751	45.513	Data
42	69.823	6.564	129.041	50.751	45.513	Data
42	69.343	6.529	129.040	50.751	45.513	Data
43	69.823	6.564	129.041	50.751	45.513	Data
43	69.343	6.529	129.040	50.751	45.513	Data
44	69.823	6.564	129.041	50.751	45.513	Data
44	69.343	6.529	129.040	50.751	45.513	Data
45	69.823	6.564	129.041	50.751	45.513	Data
45	69.343	6.529	129.040	50.751	45.513	Data
46.5	71.246	6.514	129.040	50.742	45.492	Data
46.5	71.317	6.499	129.040	50.743	45.494	Data
48	70.529	6.491	129.036	50.747	45.498	Data
48	71.187	6.555	129.035	50.746	45.497	Data
49	70.529	6.491	129.036	50.747	45.498	Data
49	71.187	6.555	129.035	50.746	45.497	Data
50	70.529	6.491	129.036	50.747	45.498	Data
50	71.187	6.555	129.035	50.746	45.497	Data
51	70.529	6.491	129.036	50.747	45.498	Data
51	71.187	6.555	129.035	50.746	45.497	Data
52.5	71.317	6.499	129.040	50.743	45.494	Data
52.5	71.246	6.514	129.040	50.742	45.492	Data
54	69.671	6.552	129.060	50.744	45.488	Data
54	69.363	6.555	129.054	50.745	45.488	Data
55	69.363	6.555	129.054	50.745	45.488	Data
55	69.671	6.552	129.060	50.744	45.488	Data
56	69.363	6.555	129.054	50.745	45.488	Data
56	69.671	6.552	129.060	50.744	45.488	Data
57	69.363	6.555	129.054	50.745	45.488	Data
57	69.671	6.552	129.060	50.744	45.488	Data
58.5	71.246	6.514	129.040	50.742	45.492	Data
58.5	71.317	6.499	129.040	50.743	45.494	Data
60.5	70.847	6.545	129.041	50.747	45.501	Data
60.5	70.485	6.468	129.033	50.748	45.501	Data
61.75	70.847	6.545	129.041	50.747	45.501	Data
61.75	70.485	6.468	129.033	50.748	45.501	Data
63	70.847	6.545	129.041	50.747	45.501	Data
63	70.485	6.468	129.033	50.748	45.501	Data
64	70.847	6.545	129.041	50.747	45.501	Data
64	70.485	6.468	129.033	50.748	45.501	Data

Table 197: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.000	6.551	129.035	51.741	45.493	Data
8	70.081	6.516	129.044	51.743	45.493	Data
30	70.437	6.553	129.045	51.744	45.513	Data
30	69.374	6.542	129.068	51.745	45.488	Data
30	70.081	6.516	129.044	51.743	45.493	Data
30	71.000	6.551	129.035	51.741	45.493	Data
30	71.132	6.483	129.035	51.742	45.497	Data
30	71.282	6.472	129.033	51.742	45.497	Data
30	71.775	6.543	129.042	51.747	45.502	Data
30	69.409	6.535	129.044	51.744	45.512	Data
30	69.532	6.516	129.062	51.746	45.488	Data
30	71.053	6.542	129.038	51.746	45.501	Data
42	70.437	6.553	129.045	51.744	45.513	Data
42	69.409	6.535	129.044	51.744	45.512	Data
43	70.437	6.553	129.045	51.744	45.513	Data
43	69.409	6.535	129.044	51.744	45.512	Data
44	70.437	6.553	129.045	51.744	45.513	Data
44	69.409	6.535	129.044	51.744	45.512	Data
45	70.437	6.553	129.045	51.744	45.513	Data
45	69.409	6.535	129.044	51.744	45.512	Data
46.5	71.000	6.551	129.035	51.741	45.493	Data
46.5	70.081	6.516	129.044	51.743	45.493	Data
48	71.282	6.472	129.033	51.742	45.497	Data
48	71.132	6.483	129.035	51.742	45.497	Data
49	71.282	6.472	129.033	51.742	45.497	Data
49	71.132	6.483	129.035	51.742	45.497	Data
50	71.282	6.472	129.033	51.742	45.497	Data
50	71.132	6.483	129.035	51.742	45.497	Data
51	71.282	6.472	129.033	51.742	45.497	Data
51	71.132	6.483	129.035	51.742	45.497	Data
52.5	71.000	6.551	129.035	51.741	45.493	Data
52.5	70.081	6.516	129.044	51.743	45.493	Data
54	69.374	6.542	129.068	51.745	45.488	Data
54	69.532	6.516	129.062	51.746	45.488	Data
55	69.374	6.542	129.068	51.745	45.488	Data
55	69.532	6.516	129.062	51.746	45.488	Data
56	69.374	6.542	129.068	51.745	45.488	Data
56	69.532	6.516	129.062	51.746	45.488	Data
57	69.374	6.542	129.068	51.745	45.488	Data
57	69.532	6.516	129.062	51.746	45.488	Data
58.5	71.000	6.551	129.035	51.741	45.493	Data
58.5	70.081	6.516	129.044	51.743	45.493	Data
60.5	71.775	6.543	129.042	51.747	45.502	Data
60.5	71.053	6.542	129.038	51.746	45.501	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	71.775	6.543	129.042	51.747	45.502	Data
61.75	71.053	6.542	129.038	51.746	45.501	Data
63	71.775	6.543	129.042	51.747	45.502	Data
63	71.053	6.542	129.038	51.746	45.501	Data
64	71.775	6.543	129.042	51.747	45.502	Data
64	71.053	6.542	129.038	51.746	45.501	Data

Table 198: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=51.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.147	6.572	129.036	52.741	45.492	Data
8	70.663	6.479	129.052	52.743	45.493	Data
30	71.141	6.485	129.037	52.746	45.498	Data
30	70.663	6.479	129.052	52.743	45.493	Data
30	69.110	6.515	129.044	52.741	45.514	Data
30	69.999	6.542	129.064	52.742	45.488	Data
30	71.761	6.542	129.033	52.747	45.498	Data
30	71.241	6.559	129.031	52.745	45.501	Data
30	71.294	6.536	129.044	52.745	45.501	Data
30	69.949	6.584	129.073	52.742	45.488	Data
30	71.147	6.572	129.036	52.741	45.492	Data
30	69.934	6.538	129.037	52.741	45.512	Data
42	69.934	6.538	129.037	52.741	45.512	Data
42	69.110	6.515	129.044	52.741	45.514	Data
43	69.934	6.538	129.037	52.741	45.512	Data
43	69.110	6.515	129.044	52.741	45.514	Data
44	69.934	6.538	129.037	52.741	45.512	Data
44	69.110	6.515	129.044	52.741	45.514	Data
45	69.934	6.538	129.037	52.741	45.512	Data
45	69.110	6.515	129.044	52.741	45.514	Data
46.5	70.663	6.479	129.052	52.743	45.493	Data
46.5	71.147	6.572	129.036	52.741	45.492	Data
48	71.141	6.485	129.037	52.746	45.498	Data
48	71.761	6.542	129.033	52.747	45.498	Data
49	71.141	6.485	129.037	52.746	45.498	Data
49	71.761	6.542	129.033	52.747	45.498	Data
50	71.141	6.485	129.037	52.746	45.498	Data
50	71.761	6.542	129.033	52.747	45.498	Data
51	71.141	6.485	129.037	52.746	45.498	Data
51	71.761	6.542	129.033	52.747	45.498	Data
52.5	70.663	6.479	129.052	52.743	45.493	Data
52.5	71.147	6.572	129.036	52.741	45.492	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.949	6.584	129.073	52.742	45.488	Data
54	69.999	6.542	129.064	52.742	45.488	Data
55	69.949	6.584	129.073	52.742	45.488	Data
55	69.999	6.542	129.064	52.742	45.488	Data
56	69.949	6.584	129.073	52.742	45.488	Data
56	69.999	6.542	129.064	52.742	45.488	Data
57	69.949	6.584	129.073	52.742	45.488	Data
57	69.999	6.542	129.064	52.742	45.488	Data
58.5	71.147	6.572	129.036	52.741	45.492	Data
58.5	70.663	6.479	129.052	52.743	45.493	Data
60.5	71.241	6.559	129.031	52.745	45.501	Data
60.5	71.294	6.536	129.044	52.745	45.501	Data
61.75	71.241	6.559	129.031	52.745	45.501	Data
61.75	71.294	6.536	129.044	52.745	45.501	Data
63	71.241	6.559	129.031	52.745	45.501	Data
63	71.294	6.536	129.044	52.745	45.501	Data
64	71.241	6.559	129.031	52.745	45.501	Data
64	71.294	6.536	129.044	52.745	45.501	Data

Table 199: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.843	6.497	129.039	53.74	45.491	Data
8	71.551	6.552	129.042	53.74	45.491	Data
30	70.524	6.514	129.045	53.741	45.512	Data
30	70.843	6.497	129.039	53.74	45.491	Data
30	70.420	6.557	129.036	53.741	45.501	Data
30	71.551	6.552	129.042	53.74	45.491	Data
30	69.269	6.564	129.046	53.74	45.488	Data
30	71.652	6.501	129.036	53.739	45.496	Data
30	70.980	6.532	129.034	53.744	45.500	Data
30	70.052	6.522	129.041	53.742	45.512	Data
30	68.276	6.522	129.041	53.74	45.488	Data
30	71.699	6.538	129.042	53.739	45.497	Data
42	70.524	6.514	129.045	53.741	45.512	Data
42	70.052	6.522	129.041	53.742	45.512	Data
43	70.524	6.514	129.045	53.741	45.512	Data
43	70.052	6.522	129.041	53.742	45.512	Data
44	70.524	6.514	129.045	53.741	45.512	Data
44	70.052	6.522	129.041	53.742	45.512	Data
45	70.524	6.514	129.045	53.741	45.512	Data
45	70.052	6.522	129.041	53.742	45.512	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	71.551	6.552	129.042	53.74	45.491	Data
46.5	70.843	6.497	129.039	53.74	45.491	Data
48	71.652	6.501	129.036	53.739	45.496	Data
48	71.699	6.538	129.042	53.739	45.497	Data
49	71.652	6.501	129.036	53.739	45.496	Data
49	71.699	6.538	129.042	53.739	45.497	Data
50	71.652	6.501	129.036	53.739	45.496	Data
50	71.699	6.538	129.042	53.739	45.497	Data
51	71.652	6.501	129.036	53.739	45.496	Data
51	71.699	6.538	129.042	53.739	45.497	Data
52.5	70.843	6.497	129.039	53.74	45.491	Data
52.5	71.551	6.552	129.042	53.74	45.491	Data
54	69.269	6.564	129.046	53.74	45.488	Data
54	68.276	6.522	129.041	53.74	45.488	Data
55	68.276	6.522	129.041	53.74	45.488	Data
55	69.269	6.564	129.046	53.74	45.488	Data
56	68.276	6.522	129.041	53.74	45.488	Data
56	69.269	6.564	129.046	53.74	45.488	Data
57	68.276	6.522	129.041	53.74	45.488	Data
57	69.269	6.564	129.046	53.74	45.488	Data
58.5	70.843	6.497	129.039	53.74	45.491	Data
58.5	71.551	6.552	129.042	53.74	45.491	Data
60.5	70.420	6.557	129.036	53.741	45.501	Data
60.5	70.980	6.532	129.034	53.744	45.500	Data
61.75	70.420	6.557	129.036	53.741	45.501	Data
61.75	70.980	6.532	129.034	53.744	45.500	Data
63	70.420	6.557	129.036	53.741	45.501	Data
63	70.980	6.532	129.034	53.744	45.500	Data
64	70.980	6.532	129.034	53.744	45.500	Data
64	70.420	6.557	129.036	53.741	45.501	Data

Table 200: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=53.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.544	6.507	129.035	54.744	45.492	Data
8	71.424	6.598	129.034	54.743	45.492	Data
30	70.704	6.534	129.034	54.748	45.512	Data
30	68.887	6.561	129.038	54.741	45.489	Data
30	71.838	6.505	129.036	54.742	45.498	Data
30	70.544	6.507	129.035	54.744	45.492	Data
30	71.424	6.598	129.034	54.743	45.492	Data
30	70.597	6.526	129.039	54.744	45.500	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.914	6.531	129.033	54.744	45.500	Data
30	71.549	6.467	129.037	54.742	45.497	Data
30	69.011	6.601	129.038	54.741	45.488	Data
30	70.105	6.564	129.042	54.746	45.512	Data
42	70.704	6.534	129.034	54.748	45.512	Data
42	70.105	6.564	129.042	54.746	45.512	Data
43	70.704	6.534	129.034	54.748	45.512	Data
43	70.105	6.564	129.042	54.746	45.512	Data
44	70.704	6.534	129.034	54.748	45.512	Data
44	70.105	6.564	129.042	54.746	45.512	Data
45	70.704	6.534	129.034	54.748	45.512	Data
45	70.105	6.564	129.042	54.746	45.512	Data
46.5	70.544	6.507	129.035	54.744	45.492	Data
46.5	71.424	6.598	129.034	54.743	45.492	Data
48	71.549	6.467	129.037	54.742	45.497	Data
48	71.838	6.505	129.036	54.742	45.498	Data
49	71.549	6.467	129.037	54.742	45.497	Data
49	71.838	6.505	129.036	54.742	45.498	Data
50	71.549	6.467	129.037	54.742	45.497	Data
50	71.838	6.505	129.036	54.742	45.498	Data
51	71.549	6.467	129.037	54.742	45.497	Data
51	71.838	6.505	129.036	54.742	45.498	Data
52.5	70.544	6.507	129.035	54.744	45.492	Data
52.5	71.424	6.598	129.034	54.743	45.492	Data
54	69.011	6.601	129.038	54.741	45.488	Data
54	68.887	6.561	129.038	54.741	45.489	Data
55	68.887	6.561	129.038	54.741	45.489	Data
55	69.011	6.601	129.038	54.741	45.488	Data
56	68.887	6.561	129.038	54.741	45.489	Data
56	69.011	6.601	129.038	54.741	45.488	Data
57	69.011	6.601	129.038	54.741	45.488	Data
57	68.887	6.561	129.038	54.741	45.489	Data
58.5	71.424	6.598	129.034	54.743	45.492	Data
58.5	70.544	6.507	129.035	54.744	45.492	Data
60.5	70.597	6.526	129.039	54.744	45.500	Data
60.5	70.914	6.531	129.033	54.744	45.500	Data
61.75	70.597	6.526	129.039	54.744	45.500	Data
61.75	70.914	6.531	129.033	54.744	45.500	Data
63	70.597	6.526	129.039	54.744	45.500	Data
63	70.914	6.531	129.033	54.744	45.500	Data
64	70.597	6.526	129.039	54.744	45.500	Data
64	70.914	6.531	129.033	54.744	45.500	Data

Table 201: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.313	6.479	129.039	55.746	45.491	Data
8	71.023	6.585	129.045	55.746	45.491	Data
30	71.023	6.585	129.045	55.746	45.491	Data
30	71.427	6.527	129.036	55.741	45.499	Data
30	71.062	6.538	129.037	55.741	45.497	Data
30	70.902	6.578	129.035	55.74	45.499	Data
30	68.419	6.540	129.038	55.738	45.489	Data
30	71.313	6.479	129.039	55.746	45.491	Data
30	70.924	6.552	129.045	55.739	45.512	Data
30	69.341	6.563	129.034	55.738	45.489	Data
30	70.525	6.514	129.036	55.743	45.498	Data
30	70.269	6.538	129.043	55.74	45.512	Data
42	70.924	6.552	129.045	55.739	45.512	Data
42	70.269	6.538	129.043	55.74	45.512	Data
43	70.924	6.552	129.045	55.739	45.512	Data
43	70.269	6.538	129.043	55.74	45.512	Data
44	70.924	6.552	129.045	55.739	45.512	Data
44	70.269	6.538	129.043	55.74	45.512	Data
45	70.924	6.552	129.045	55.739	45.512	Data
45	70.269	6.538	129.043	55.74	45.512	Data
46.5	71.023	6.585	129.045	55.746	45.491	Data
46.5	71.313	6.479	129.039	55.746	45.491	Data
48	71.062	6.538	129.037	55.741	45.497	Data
48	70.525	6.514	129.036	55.743	45.498	Data
49	71.062	6.538	129.037	55.741	45.497	Data
49	70.525	6.514	129.036	55.743	45.498	Data
50	71.062	6.538	129.037	55.741	45.497	Data
50	70.525	6.514	129.036	55.743	45.498	Data
51	71.062	6.538	129.037	55.741	45.497	Data
51	70.525	6.514	129.036	55.743	45.498	Data
52.5	71.313	6.479	129.039	55.746	45.491	Data
52.5	71.023	6.585	129.045	55.746	45.491	Data
54	68.419	6.540	129.038	55.738	45.489	Data
54	69.341	6.563	129.034	55.738	45.489	Data
55	68.419	6.540	129.038	55.738	45.489	Data
55	69.341	6.563	129.034	55.738	45.489	Data
56	68.419	6.540	129.038	55.738	45.489	Data
56	69.341	6.563	129.034	55.738	45.489	Data
57	68.419	6.540	129.038	55.738	45.489	Data
57	69.341	6.563	129.034	55.738	45.489	Data
58.5	71.023	6.585	129.045	55.746	45.491	Data
58.5	71.313	6.479	129.039	55.746	45.491	Data
60.5	71.427	6.527	129.036	55.741	45.499	Data
60.5	70.902	6.578	129.035	55.74	45.499	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	71.427	6.527	129.036	55.741	45.499	Data
61.75	70.902	6.578	129.035	55.74	45.499	Data
63	71.427	6.527	129.036	55.741	45.499	Data
63	70.902	6.578	129.035	55.74	45.499	Data
64	71.427	6.527	129.036	55.741	45.499	Data
64	70.902	6.578	129.035	55.74	45.499	Data

Table 202: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=55.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.542	6.518	129.039	56.749	45.491	Data
8	71.505	6.513	129.037	56.749	45.491	Data
30	71.505	6.513	129.037	56.749	45.491	Data
30	70.387	6.505	129.048	56.743	45.512	Data
30	70.635	6.542	129.041	56.742	45.498	Data
30	71.542	6.518	129.039	56.749	45.491	Data
30	71.320	6.557	129.030	56.74	45.500	Data
30	71.108	6.533	129.035	56.743	45.497	Data
30	69.629	6.553	129.044	56.745	45.512	Data
30	71.223	6.505	129.038	56.74	45.500	Data
30	69.644	6.543	129.033	56.746	45.489	Data
30	69.611	6.550	129.036	56.747	45.489	Data
42	69.629	6.553	129.044	56.745	45.512	Data
42	70.387	6.505	129.048	56.743	45.512	Data
43	69.629	6.553	129.044	56.745	45.512	Data
43	70.387	6.505	129.048	56.743	45.512	Data
44	69.629	6.553	129.044	56.745	45.512	Data
44	70.387	6.505	129.048	56.743	45.512	Data
45	69.629	6.553	129.044	56.745	45.512	Data
45	70.387	6.505	129.048	56.743	45.512	Data
46.5	71.505	6.513	129.037	56.749	45.491	Data
46.5	71.542	6.518	129.039	56.749	45.491	Data
48	70.635	6.542	129.041	56.742	45.498	Data
48	71.108	6.533	129.035	56.743	45.497	Data
49	70.635	6.542	129.041	56.742	45.498	Data
49	71.108	6.533	129.035	56.743	45.497	Data
50	70.635	6.542	129.041	56.742	45.498	Data
50	71.108	6.533	129.035	56.743	45.497	Data
51	70.635	6.542	129.041	56.742	45.498	Data
51	71.108	6.533	129.035	56.743	45.497	Data
52.5	71.505	6.513	129.037	56.749	45.491	Data
52.5	71.542	6.518	129.039	56.749	45.491	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.644	6.543	129.033	56.746	45.489	Data
54	69.611	6.550	129.036	56.747	45.489	Data
55	69.644	6.543	129.033	56.746	45.489	Data
55	69.611	6.550	129.036	56.747	45.489	Data
56	69.644	6.543	129.033	56.746	45.489	Data
56	69.611	6.550	129.036	56.747	45.489	Data
57	69.644	6.543	129.033	56.746	45.489	Data
57	69.611	6.550	129.036	56.747	45.489	Data
58.5	71.542	6.518	129.039	56.749	45.491	Data
58.5	71.505	6.513	129.037	56.749	45.491	Data
60.5	71.320	6.557	129.030	56.74	45.500	Data
60.5	71.223	6.505	129.038	56.74	45.500	Data
61.75	71.320	6.557	129.030	56.74	45.500	Data
61.75	71.223	6.505	129.038	56.74	45.500	Data
63	71.320	6.557	129.030	56.74	45.500	Data
63	71.223	6.505	129.038	56.74	45.500	Data
64	71.320	6.557	129.030	56.74	45.500	Data
64	71.223	6.505	129.038	56.74	45.500	Data

Table 203: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.289	6.511	129.041	57.753	45.491	Data
8	71.251	6.521	129.046	57.754	45.491	Data
30	71.289	6.511	129.041	57.753	45.491	Data
30	71.601	6.508	129.037	57.753	45.499	Data
30	71.141	6.597	129.042	57.754	45.499	Data
30	69.557	6.586	129.036	57.759	45.492	Data
30	70.840	6.538	129.048	57.745	45.512	Data
30	71.251	6.521	129.046	57.754	45.491	Data
30	70.579	6.526	129.034	57.754	45.497	Data
30	70.274	6.514	129.044	57.745	45.512	Data
30	70.826	6.556	129.037	57.753	45.497	Data
30	69.728	6.512	129.039	57.76	45.492	Data
42	70.840	6.538	129.048	57.745	45.512	Data
42	70.274	6.514	129.044	57.745	45.512	Data
43	70.274	6.514	129.044	57.745	45.512	Data
43	70.840	6.538	129.048	57.745	45.512	Data
44	70.274	6.514	129.044	57.745	45.512	Data
44	70.840	6.538	129.048	57.745	45.512	Data
45	70.274	6.514	129.044	57.745	45.512	Data
45	70.840	6.538	129.048	57.745	45.512	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	71.289	6.511	129.041	57.753	45.491	Data
46.5	71.251	6.521	129.046	57.754	45.491	Data
48	70.826	6.556	129.037	57.753	45.497	Data
48	70.579	6.526	129.034	57.754	45.497	Data
49	70.826	6.556	129.037	57.753	45.497	Data
49	70.579	6.526	129.034	57.754	45.497	Data
50	70.826	6.556	129.037	57.753	45.497	Data
50	70.579	6.526	129.034	57.754	45.497	Data
51	70.826	6.556	129.037	57.753	45.497	Data
51	70.579	6.526	129.034	57.754	45.497	Data
52.5	71.289	6.511	129.041	57.753	45.491	Data
52.5	71.251	6.521	129.046	57.754	45.491	Data
54	69.557	6.586	129.036	57.759	45.492	Data
54	69.728	6.512	129.039	57.76	45.492	Data
55	69.557	6.586	129.036	57.759	45.492	Data
55	69.728	6.512	129.039	57.76	45.492	Data
56	69.557	6.586	129.036	57.759	45.492	Data
56	69.728	6.512	129.039	57.76	45.492	Data
57	69.557	6.586	129.036	57.759	45.492	Data
57	69.728	6.512	129.039	57.76	45.492	Data
58.5	71.289	6.511	129.041	57.753	45.491	Data
58.5	71.251	6.521	129.046	57.754	45.491	Data
60.5	71.141	6.597	129.042	57.754	45.499	Data
60.5	71.601	6.508	129.037	57.753	45.499	Data
61.75	71.141	6.597	129.042	57.754	45.499	Data
61.75	71.601	6.508	129.037	57.753	45.499	Data
63	71.141	6.597	129.042	57.754	45.499	Data
63	71.601	6.508	129.037	57.753	45.499	Data
64	71.601	6.508	129.037	57.753	45.499	Data
64	71.141	6.597	129.042	57.754	45.499	Data

Table 204: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=57.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.896	6.499	129.041	58.76	45.491	Data
8	71.886	6.489	129.043	58.759	45.491	Data
30	71.345	6.519	129.040	58.757	45.497	Data
30	71.886	6.489	129.043	58.759	45.491	Data
30	70.192	6.585	129.044	58.746	45.513	Data
30	68.684	6.584	129.043	58.755	45.491	Data
30	70.896	6.499	129.041	58.76	45.491	Data
30	71.251	6.535	129.048	58.759	45.498	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.405	6.498	129.043	58.758	45.498	Data
30	70.215	6.582	129.043	58.747	45.513	Data
30	71.912	6.510	129.034	58.759	45.497	Data
30	69.123	6.541	129.037	58.754	45.492	Data
42	70.192	6.585	129.044	58.746	45.513	Data
42	70.215	6.582	129.043	58.747	45.513	Data
43	70.192	6.585	129.044	58.746	45.513	Data
43	70.215	6.582	129.043	58.747	45.513	Data
44	70.192	6.585	129.044	58.746	45.513	Data
44	70.215	6.582	129.043	58.747	45.513	Data
45	70.192	6.585	129.044	58.746	45.513	Data
45	70.215	6.582	129.043	58.747	45.513	Data
46.5	71.886	6.489	129.043	58.759	45.491	Data
46.5	70.896	6.499	129.041	58.76	45.491	Data
48	71.345	6.519	129.040	58.757	45.497	Data
48	71.912	6.510	129.034	58.759	45.497	Data
49	71.345	6.519	129.040	58.757	45.497	Data
49	71.912	6.510	129.034	58.759	45.497	Data
50	71.345	6.519	129.040	58.757	45.497	Data
50	71.912	6.510	129.034	58.759	45.497	Data
51	71.345	6.519	129.040	58.757	45.497	Data
51	71.912	6.510	129.034	58.759	45.497	Data
52.5	71.886	6.489	129.043	58.759	45.491	Data
52.5	70.896	6.499	129.041	58.76	45.491	Data
54	68.684	6.584	129.043	58.755	45.491	Data
54	69.123	6.541	129.037	58.754	45.492	Data
55	68.684	6.584	129.043	58.755	45.491	Data
55	69.123	6.541	129.037	58.754	45.492	Data
56	68.684	6.584	129.043	58.755	45.491	Data
56	69.123	6.541	129.037	58.754	45.492	Data
57	68.684	6.584	129.043	58.755	45.491	Data
57	69.123	6.541	129.037	58.754	45.492	Data
58.5	71.886	6.489	129.043	58.759	45.491	Data
58.5	70.896	6.499	129.041	58.76	45.491	Data
60.5	71.251	6.535	129.048	58.759	45.498	Data
60.5	71.405	6.498	129.043	58.758	45.498	Data
61.75	71.405	6.498	129.043	58.758	45.498	Data
61.75	71.251	6.535	129.048	58.759	45.498	Data
63	71.405	6.498	129.043	58.758	45.498	Data
63	71.251	6.535	129.048	58.759	45.498	Data
64	71.251	6.535	129.048	58.759	45.498	Data
64	71.405	6.498	129.043	58.758	45.498	Data

Table 205: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.550	6.519	129.046	59.758	45.491	Data
8	71.069	6.538	129.045	59.759	45.491	Data
30	70.702	6.551	129.038	59.751	45.464	Data
30	71.550	6.519	129.046	59.758	45.491	Data
30	71.069	6.538	129.045	59.759	45.491	Data
30	69.605	6.550	129.040	59.754	45.492	Data
30	71.324	6.512	129.042	59.751	45.498	Data
30	71.329	6.504	129.033	59.755	45.497	Data
30	70.866	6.542	129.038	59.753	45.497	Data
30	71.078	6.576	129.042	59.753	45.499	Data
30	69.516	6.573	129.038	59.752	45.493	Data
30	70.930	6.566	129.043	59.751	45.489	Data
42	70.702	6.551	129.038	59.751	45.464	Data
42	70.930	6.566	129.043	59.751	45.489	Data
43	70.702	6.551	129.038	59.751	45.464	Data
43	70.930	6.566	129.043	59.751	45.489	Data
44	70.702	6.551	129.038	59.751	45.464	Data
44	70.930	6.566	129.043	59.751	45.489	Data
45	70.702	6.551	129.038	59.751	45.464	Data
45	70.930	6.566	129.043	59.751	45.489	Data
46.5	71.069	6.538	129.045	59.759	45.491	Data
46.5	71.550	6.519	129.046	59.758	45.491	Data
48	71.329	6.504	129.033	59.755	45.497	Data
48	70.866	6.542	129.038	59.753	45.497	Data
49	71.329	6.504	129.033	59.755	45.497	Data
49	70.866	6.542	129.038	59.753	45.497	Data
50	71.329	6.504	129.033	59.755	45.497	Data
50	70.866	6.542	129.038	59.753	45.497	Data
51	71.329	6.504	129.033	59.755	45.497	Data
51	70.866	6.542	129.038	59.753	45.497	Data
52.5	71.069	6.538	129.045	59.759	45.491	Data
52.5	71.550	6.519	129.046	59.758	45.491	Data
54	69.516	6.573	129.038	59.752	45.493	Data
54	69.605	6.550	129.040	59.754	45.492	Data
55	69.516	6.573	129.038	59.752	45.493	Data
55	69.605	6.550	129.040	59.754	45.492	Data
56	69.516	6.573	129.038	59.752	45.493	Data
56	69.605	6.550	129.040	59.754	45.492	Data
57	69.516	6.573	129.038	59.752	45.493	Data
57	69.605	6.550	129.040	59.754	45.492	Data
58.5	71.069	6.538	129.045	59.759	45.491	Data
58.5	71.550	6.519	129.046	59.758	45.491	Data
60.5	71.324	6.512	129.042	59.751	45.498	Data
60.5	71.078	6.576	129.042	59.753	45.499	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	71.324	6.512	129.042	59.751	45.498	Data
61.75	71.078	6.576	129.042	59.753	45.499	Data
63	71.324	6.512	129.042	59.751	45.498	Data
63	71.078	6.576	129.042	59.753	45.499	Data
64	71.324	6.512	129.042	59.751	45.498	Data
64	71.078	6.576	129.042	59.753	45.499	Data

Table 206: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=59.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.114	6.520	129.040	60.74	45.491	Data
8	71.426	6.529	129.044	60.736	45.490	Data
30	70.184	6.532	129.043	60.754	45.511	Data
30	71.114	6.520	129.040	60.74	45.491	Data
30	69.086	6.568	129.038	60.762	45.493	Data
30	71.426	6.529	129.044	60.736	45.490	Data
30	70.780	6.536	129.032	60.762	45.497	Data
30	69.919	6.563	129.042	60.762	45.492	Data
30	70.858	6.572	129.045	60.754	45.485	Data
30	71.041	6.561	129.030	60.762	45.499	Data
30	70.876	6.521	129.039	60.759	45.499	Data
30	70.195	6.521	129.040	60.757	45.498	Data
42	70.184	6.532	129.043	60.754	45.511	Data
42	70.858	6.572	129.045	60.754	45.485	Data
43	70.184	6.532	129.043	60.754	45.511	Data
43	70.858	6.572	129.045	60.754	45.485	Data
44	70.184	6.532	129.043	60.754	45.511	Data
44	70.858	6.572	129.045	60.754	45.485	Data
45	70.184	6.532	129.043	60.754	45.511	Data
45	70.858	6.572	129.045	60.754	45.485	Data
46.5	71.114	6.520	129.040	60.74	45.491	Data
46.5	71.426	6.529	129.044	60.736	45.490	Data
48	70.780	6.536	129.032	60.762	45.497	Data
48	71.041	6.561	129.030	60.762	45.499	Data
49	70.780	6.536	129.032	60.762	45.497	Data
49	71.041	6.561	129.030	60.762	45.499	Data
50	70.780	6.536	129.032	60.762	45.497	Data
50	71.041	6.561	129.030	60.762	45.499	Data
51	70.780	6.536	129.032	60.762	45.497	Data
51	71.041	6.561	129.030	60.762	45.499	Data
52.5	71.114	6.520	129.040	60.74	45.491	Data
52.5	71.426	6.529	129.044	60.736	45.490	Data

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.919	6.563	129.042	60.762	45.492	Data
54	69.086	6.568	129.038	60.762	45.493	Data
55	69.919	6.563	129.042	60.762	45.492	Data
55	69.086	6.568	129.038	60.762	45.493	Data
56	69.919	6.563	129.042	60.762	45.492	Data
56	69.086	6.568	129.038	60.762	45.493	Data
57	69.919	6.563	129.042	60.762	45.492	Data
57	69.086	6.568	129.038	60.762	45.493	Data
58.5	71.114	6.520	129.040	60.74	45.491	Data
58.5	71.426	6.529	129.044	60.736	45.490	Data
60.5	70.876	6.521	129.039	60.759	45.499	Data
60.5	70.195	6.521	129.040	60.757	45.498	Data
61.75	70.876	6.521	129.039	60.759	45.499	Data
61.75	70.195	6.521	129.040	60.757	45.498	Data
63	70.876	6.521	129.039	60.759	45.499	Data
63	70.195	6.521	129.040	60.757	45.498	Data
64	70.876	6.521	129.039	60.759	45.499	Data
64	70.195	6.521	129.040	60.757	45.498	Data

Table 207: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=60.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=62.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.362	6.531	129.036	62.744	45.496	Data
30	70.611	6.528	129.040	62.744	45.496	Data
60.5	70.362	6.531	129.036	62.744	45.496	Data
60.5	70.611	6.528	129.040	62.744	45.496	Data
61.75	70.362	6.531	129.036	62.744	45.496	Data
61.75	70.611	6.528	129.040	62.744	45.496	Data
63	70.362	6.531	129.036	62.744	45.496	Data
63	70.611	6.528	129.040	62.744	45.496	Data
64	70.362	6.531	129.036	62.744	45.496	Data
64	70.611	6.528	129.040	62.744	45.496	Data

Table 208: VG horizontal sweep: q=70 RO-tip VG 45.5 (in) VG AoA 8 +9ft — VG at span y=62.5 (in)

D.15. Horizontal VG vortex sweep at height z=46.5, q=70, α_{VG}=8, α_W=11, RO-tip

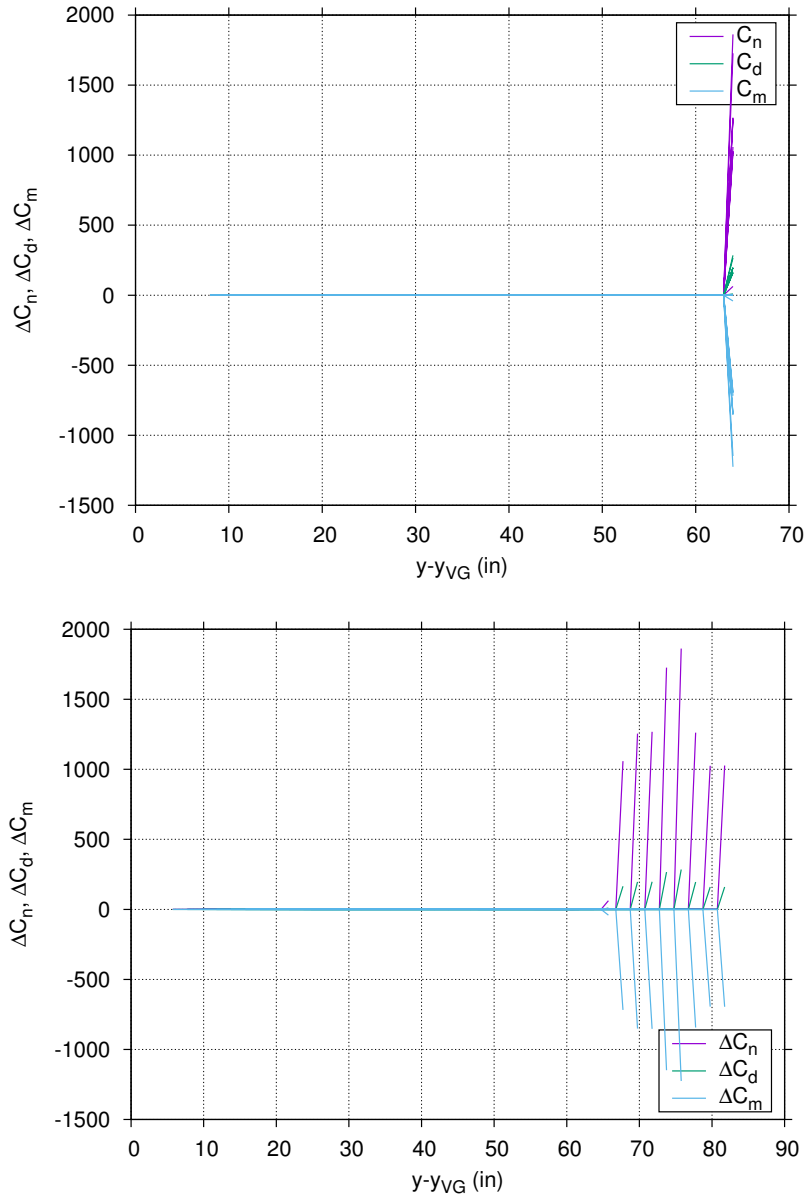

Figure 68. VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — (Data)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=42.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.906	10.493	46.050	42.752	46.497	Data
30	69.013	10.527	46.058	42.751	46.497	Data
60.5	68.906	10.493	46.050	42.752	46.497	Data
60.5	69.013	10.527	46.058	42.751	46.497	Data
61.75	68.906	10.493	46.050	42.752	46.497	Data
61.75	69.013	10.527	46.058	42.751	46.497	Data
63	69.013	10.527	46.058	42.751	46.497	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=42.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	68.906	10.493	46.050	42.752	46.497	Data
64	68.906	10.493	46.050	42.752	46.497	Data
64	69.013	10.527	46.058	42.751	46.497	Data

Table 209: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=42.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.513	10.571	45.870	43.735	46.535	Data
8	68.194	10.530	45.872	43.735	46.534	Data
30	69.642	10.627	45.952	43.756	46.495	Data
30	69.975	10.533	46.055	43.752	46.506	Data
30	68.930	10.550	46.040	43.751	46.495	Data
30	69.948	10.484	46.055	43.752	46.502	Data
30	68.513	10.571	45.870	43.735	46.535	Data
30	68.194	10.530	45.872	43.735	46.534	Data
30	69.486	10.504	45.951	43.758	46.504	Data
30	69.034	10.582	45.953	43.753	46.496	Data
30	69.031	10.462	46.038	43.751	46.495	Data
30	68.668	10.534	45.944	43.757	46.508	Data
42	68.668	10.534	45.944	43.757	46.508	Data
42	69.486	10.504	45.951	43.758	46.504	Data
43	68.668	10.534	45.944	43.757	46.508	Data
43	69.486	10.504	45.951	43.758	46.504	Data
44	68.668	10.534	45.944	43.757	46.508	Data
44	69.486	10.504	45.951	43.758	46.504	Data
45	68.668	10.534	45.944	43.757	46.508	Data
45	69.486	10.504	45.951	43.758	46.504	Data
46.5	68.513	10.571	45.870	43.735	46.535	Data
46.5	68.194	10.530	45.872	43.735	46.534	Data
48	69.642	10.627	45.952	43.756	46.495	Data
48	69.034	10.582	45.953	43.753	46.496	Data
49	69.642	10.627	45.952	43.756	46.495	Data
49	69.034	10.582	45.953	43.753	46.496	Data
50	69.642	10.627	45.952	43.756	46.495	Data
50	69.034	10.582	45.953	43.753	46.496	Data
51	69.642	10.627	45.952	43.756	46.495	Data
51	69.034	10.582	45.953	43.753	46.496	Data
52.5	68.513	10.571	45.870	43.735	46.535	Data
52.5	68.194	10.530	45.872	43.735	46.534	Data
54	69.031	10.462	46.038	43.751	46.495	Data
54	68.930	10.550	46.040	43.751	46.495	Data
55	69.031	10.462	46.038	43.751	46.495	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	68.930	10.550	46.040	43.751	46.495	Data
56	69.031	10.462	46.038	43.751	46.495	Data
56	68.930	10.550	46.040	43.751	46.495	Data
57	69.031	10.462	46.038	43.751	46.495	Data
57	68.930	10.550	46.040	43.751	46.495	Data
58.5	68.513	10.571	45.870	43.735	46.535	Data
58.5	68.194	10.530	45.872	43.735	46.534	Data
60.5	69.948	10.484	46.055	43.752	46.502	Data
60.5	69.975	10.533	46.055	43.752	46.506	Data
61.75	69.948	10.484	46.055	43.752	46.502	Data
61.75	69.975	10.533	46.055	43.752	46.506	Data
63	69.948	10.484	46.055	43.752	46.502	Data
63	69.975	10.533	46.055	43.752	46.506	Data
64	69.975	10.533	46.055	43.752	46.506	Data
64	69.948	10.484	46.055	43.752	46.502	Data

Table 210: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.933	10.551	45.879	44.758	46.534	Data
8	69.095	10.592	45.884	44.757	46.533	Data
30	69.553	10.577	45.951	44.75	46.501	Data
30	68.021	10.619	45.956	44.755	46.495	Data
30	69.479	10.546	45.955	44.75	46.502	Data
30	69.460	10.526	46.043	44.741	46.495	Data
30	68.615	10.598	45.951	44.756	46.495	Data
30	68.875	10.493	46.045	44.743	46.495	Data
30	69.643	10.460	46.054	44.746	46.497	Data
30	69.095	10.592	45.884	44.757	46.533	Data
30	69.279	10.504	46.053	44.747	46.497	Data
30	68.933	10.551	45.879	44.758	46.534	Data
42	69.479	10.546	45.955	44.75	46.502	Data
42	69.553	10.577	45.951	44.75	46.501	Data
43	69.479	10.546	45.955	44.75	46.502	Data
43	69.553	10.577	45.951	44.75	46.501	Data
44	69.479	10.546	45.955	44.75	46.502	Data
44	69.553	10.577	45.951	44.75	46.501	Data
45	69.479	10.546	45.955	44.75	46.502	Data
45	69.553	10.577	45.951	44.75	46.501	Data
46.5	68.933	10.551	45.879	44.758	46.534	Data
46.5	69.095	10.592	45.884	44.757	46.533	Data
48	68.021	10.619	45.956	44.755	46.495	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	68.615	10.598	45.951	44.756	46.495	Data
49	68.021	10.619	45.956	44.755	46.495	Data
49	68.615	10.598	45.951	44.756	46.495	Data
50	68.021	10.619	45.956	44.755	46.495	Data
50	68.615	10.598	45.951	44.756	46.495	Data
51	68.021	10.619	45.956	44.755	46.495	Data
51	68.615	10.598	45.951	44.756	46.495	Data
52.5	69.095	10.592	45.884	44.757	46.533	Data
52.5	68.933	10.551	45.879	44.758	46.534	Data
54	69.460	10.526	46.043	44.741	46.495	Data
54	68.875	10.493	46.045	44.743	46.495	Data
55	69.460	10.526	46.043	44.741	46.495	Data
55	68.875	10.493	46.045	44.743	46.495	Data
56	69.460	10.526	46.043	44.741	46.495	Data
56	68.875	10.493	46.045	44.743	46.495	Data
57	69.460	10.526	46.043	44.741	46.495	Data
57	68.875	10.493	46.045	44.743	46.495	Data
58.5	69.095	10.592	45.884	44.757	46.533	Data
58.5	68.933	10.551	45.879	44.758	46.534	Data
60.5	69.279	10.504	46.053	44.747	46.497	Data
60.5	69.643	10.460	46.054	44.746	46.497	Data
61.75	69.279	10.504	46.053	44.747	46.497	Data
61.75	69.643	10.460	46.054	44.746	46.497	Data
63	69.279	10.504	46.053	44.747	46.497	Data
63	69.643	10.460	46.054	44.746	46.497	Data
64	69.279	10.504	46.053	44.747	46.497	Data
64	69.643	10.460	46.054	44.746	46.497	Data

Table 211: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.248	10.572	45.875	46.746	46.532	Data
8	68.729	10.510	45.874	46.745	46.532	Data
30	69.272	10.459	46.048	46.746	46.497	Data
30	68.387	10.561	45.953	46.745	46.495	Data
30	69.374	10.488	46.036	46.741	46.494	Data
30	68.729	10.510	45.874	46.745	46.532	Data
30	69.987	10.516	45.952	46.747	46.502	Data
30	69.248	10.572	45.875	46.746	46.532	Data
30	68.496	10.601	45.955	46.745	46.495	Data
30	69.237	10.508	46.040	46.74	46.495	Data
30	68.973	10.546	46.047	46.746	46.497	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.394	10.570	45.949	46.747	46.502	Data
42	69.987	10.516	45.952	46.747	46.502	Data
42	69.394	10.570	45.949	46.747	46.502	Data
43	69.987	10.516	45.952	46.747	46.502	Data
43	69.394	10.570	45.949	46.747	46.502	Data
44	69.987	10.516	45.952	46.747	46.502	Data
44	69.394	10.570	45.949	46.747	46.502	Data
45	69.987	10.516	45.952	46.747	46.502	Data
45	69.394	10.570	45.949	46.747	46.502	Data
46.5	68.729	10.510	45.874	46.745	46.532	Data
46.5	69.248	10.572	45.875	46.746	46.532	Data
48	68.496	10.601	45.955	46.745	46.495	Data
48	68.387	10.561	45.953	46.745	46.495	Data
49	68.387	10.561	45.953	46.745	46.495	Data
49	68.496	10.601	45.955	46.745	46.495	Data
50	68.387	10.561	45.953	46.745	46.495	Data
50	68.496	10.601	45.955	46.745	46.495	Data
51	68.496	10.601	45.955	46.745	46.495	Data
51	68.387	10.561	45.953	46.745	46.495	Data
52.5	68.729	10.510	45.874	46.745	46.532	Data
52.5	69.248	10.572	45.875	46.746	46.532	Data
54	69.374	10.488	46.036	46.741	46.494	Data
54	69.237	10.508	46.040	46.74	46.495	Data
55	69.374	10.488	46.036	46.741	46.494	Data
55	69.237	10.508	46.040	46.74	46.495	Data
56	69.374	10.488	46.036	46.741	46.494	Data
56	69.237	10.508	46.040	46.74	46.495	Data
57	69.374	10.488	46.036	46.741	46.494	Data
57	69.237	10.508	46.040	46.74	46.495	Data
58.5	68.729	10.510	45.874	46.745	46.532	Data
58.5	69.248	10.572	45.875	46.746	46.532	Data
60.5	69.272	10.459	46.048	46.746	46.497	Data
60.5	68.973	10.546	46.047	46.746	46.497	Data
61.75	69.272	10.459	46.048	46.746	46.497	Data
61.75	68.973	10.546	46.047	46.746	46.497	Data
63	69.272	10.459	46.048	46.746	46.497	Data
63	68.973	10.546	46.047	46.746	46.497	Data
64	69.272	10.459	46.048	46.746	46.497	Data
64	68.973	10.546	46.047	46.746	46.497	Data

Table 212: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.582	10.495	45.865	48.758	46.530	Data
8	69.320	10.581	45.872	48.758	46.531	Data
30	69.996	10.549	45.949	48.75	46.502	Data
30	69.161	10.522	46.045	48.745	46.495	Data
30	68.186	10.500	45.952	48.754	46.495	Data
30	70.461	10.579	45.946	48.752	46.502	Data
30	69.320	10.581	45.872	48.758	46.531	Data
30	69.118	10.609	46.054	48.745	46.498	Data
30	68.786	10.533	45.953	48.754	46.495	Data
30	69.178	10.535	46.044	48.745	46.495	Data
30	69.409	10.507	46.054	48.745	46.497	Data
30	69.582	10.495	45.865	48.758	46.530	Data
42	69.996	10.549	45.949	48.75	46.502	Data
42	70.461	10.579	45.946	48.752	46.502	Data
43	69.996	10.549	45.949	48.75	46.502	Data
43	70.461	10.579	45.946	48.752	46.502	Data
44	69.996	10.549	45.949	48.75	46.502	Data
44	70.461	10.579	45.946	48.752	46.502	Data
45	69.996	10.549	45.949	48.75	46.502	Data
45	70.461	10.579	45.946	48.752	46.502	Data
46.5	69.320	10.581	45.872	48.758	46.531	Data
46.5	69.582	10.495	45.865	48.758	46.530	Data
48	68.186	10.500	45.952	48.754	46.495	Data
48	68.786	10.533	45.953	48.754	46.495	Data
49	68.786	10.533	45.953	48.754	46.495	Data
49	68.186	10.500	45.952	48.754	46.495	Data
50	68.786	10.533	45.953	48.754	46.495	Data
50	68.186	10.500	45.952	48.754	46.495	Data
51	68.186	10.500	45.952	48.754	46.495	Data
51	68.786	10.533	45.953	48.754	46.495	Data
52.5	69.320	10.581	45.872	48.758	46.531	Data
52.5	69.582	10.495	45.865	48.758	46.530	Data
54	69.178	10.535	46.044	48.745	46.495	Data
54	69.161	10.522	46.045	48.745	46.495	Data
55	69.178	10.535	46.044	48.745	46.495	Data
55	69.161	10.522	46.045	48.745	46.495	Data
56	69.178	10.535	46.044	48.745	46.495	Data
56	69.161	10.522	46.045	48.745	46.495	Data
57	69.178	10.535	46.044	48.745	46.495	Data
57	69.161	10.522	46.045	48.745	46.495	Data
58.5	69.320	10.581	45.872	48.758	46.531	Data
58.5	69.582	10.495	45.865	48.758	46.530	Data
60.5	69.118	10.609	46.054	48.745	46.498	Data
60.5	69.409	10.507	46.054	48.745	46.497	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.118	10.609	46.054	48.745	46.498	Data
61.75	69.409	10.507	46.054	48.745	46.497	Data
63	69.118	10.609	46.054	48.745	46.498	Data
63	69.409	10.507	46.054	48.745	46.497	Data
64	69.409	10.507	46.054	48.745	46.497	Data
64	69.118	10.609	46.054	48.745	46.498	Data

Table 213: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.121	10.589	45.871	50.76	46.529	Data
8	69.020	10.508	45.868	50.759	46.529	Data
30	68.738	10.566	45.947	50.753	46.496	Data
30	69.121	10.589	45.871	50.76	46.529	Data
30	70.164	10.510	45.949	50.747	46.502	Data
30	69.386	10.549	46.053	50.753	46.497	Data
30	69.602	10.523	46.047	50.75	46.495	Data
30	70.079	10.502	46.050	50.752	46.497	Data
30	70.311	10.507	46.044	50.749	46.494	Data
30	68.287	10.596	45.955	50.752	46.495	Data
30	69.020	10.508	45.868	50.759	46.529	Data
30	70.541	10.515	45.953	50.746	46.501	Data
42	70.164	10.510	45.949	50.747	46.502	Data
42	70.541	10.515	45.953	50.746	46.501	Data
43	70.164	10.510	45.949	50.747	46.502	Data
43	70.541	10.515	45.953	50.746	46.501	Data
44	70.164	10.510	45.949	50.747	46.502	Data
44	70.541	10.515	45.953	50.746	46.501	Data
45	70.164	10.510	45.949	50.747	46.502	Data
45	70.541	10.515	45.953	50.746	46.501	Data
46.5	69.121	10.589	45.871	50.76	46.529	Data
46.5	69.020	10.508	45.868	50.759	46.529	Data
48	68.738	10.566	45.947	50.753	46.496	Data
48	68.287	10.596	45.955	50.752	46.495	Data
49	68.738	10.566	45.947	50.753	46.496	Data
49	68.287	10.596	45.955	50.752	46.495	Data
50	68.287	10.596	45.955	50.752	46.495	Data
50	68.738	10.566	45.947	50.753	46.496	Data
51	68.287	10.596	45.955	50.752	46.495	Data
51	68.738	10.566	45.947	50.753	46.496	Data
52.5	69.020	10.508	45.868	50.759	46.529	Data
52.5	69.121	10.589	45.871	50.76	46.529	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.602	10.523	46.047	50.75	46.495	Data
54	70.311	10.507	46.044	50.749	46.494	Data
55	69.602	10.523	46.047	50.75	46.495	Data
55	70.311	10.507	46.044	50.749	46.494	Data
56	69.602	10.523	46.047	50.75	46.495	Data
56	70.311	10.507	46.044	50.749	46.494	Data
57	69.602	10.523	46.047	50.75	46.495	Data
57	70.311	10.507	46.044	50.749	46.494	Data
58.5	69.020	10.508	45.868	50.759	46.529	Data
58.5	69.121	10.589	45.871	50.76	46.529	Data
60.5	69.386	10.549	46.053	50.753	46.497	Data
60.5	70.079	10.502	46.050	50.752	46.497	Data
61.75	69.386	10.549	46.053	50.753	46.497	Data
61.75	70.079	10.502	46.050	50.752	46.497	Data
63	69.386	10.549	46.053	50.753	46.497	Data
63	70.079	10.502	46.050	50.752	46.497	Data
64	69.386	10.549	46.053	50.753	46.497	Data
64	70.079	10.502	46.050	50.752	46.497	Data

Table 214: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.204	10.531	45.865	52.754	46.528	Data
8	70.294	10.578	45.864	52.753	46.528	Data
30	68.222	10.591	45.957	52.758	46.495	Data
30	70.294	10.578	45.864	52.753	46.528	Data
30	70.796	10.570	45.959	52.75	46.502	Data
30	69.350	10.510	46.054	52.755	46.498	Data
30	68.978	10.531	45.959	52.756	46.495	Data
30	70.419	10.527	46.045	52.748	46.494	Data
30	69.136	10.491	46.052	52.754	46.498	Data
30	70.739	10.552	45.956	52.748	46.501	Data
30	70.291	10.511	46.044	52.748	46.495	Data
30	69.204	10.531	45.865	52.754	46.528	Data
42	70.796	10.570	45.959	52.75	46.502	Data
42	70.739	10.552	45.956	52.748	46.501	Data
43	70.796	10.570	45.959	52.75	46.502	Data
43	70.739	10.552	45.956	52.748	46.501	Data
44	70.796	10.570	45.959	52.75	46.502	Data
44	70.739	10.552	45.956	52.748	46.501	Data
45	70.796	10.570	45.959	52.75	46.502	Data
45	70.739	10.552	45.956	52.748	46.501	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.294	10.578	45.864	52.753	46.528	Data
46.5	69.204	10.531	45.865	52.754	46.528	Data
48	68.222	10.591	45.957	52.758	46.495	Data
48	68.978	10.531	45.959	52.756	46.495	Data
49	68.222	10.591	45.957	52.758	46.495	Data
49	68.978	10.531	45.959	52.756	46.495	Data
50	68.222	10.591	45.957	52.758	46.495	Data
50	68.978	10.531	45.959	52.756	46.495	Data
51	68.222	10.591	45.957	52.758	46.495	Data
51	68.978	10.531	45.959	52.756	46.495	Data
52.5	70.294	10.578	45.864	52.753	46.528	Data
52.5	69.204	10.531	45.865	52.754	46.528	Data
54	70.419	10.527	46.045	52.748	46.494	Data
54	70.291	10.511	46.044	52.748	46.495	Data
55	70.419	10.527	46.045	52.748	46.494	Data
55	70.291	10.511	46.044	52.748	46.495	Data
56	70.419	10.527	46.045	52.748	46.494	Data
56	70.291	10.511	46.044	52.748	46.495	Data
57	70.419	10.527	46.045	52.748	46.494	Data
57	70.291	10.511	46.044	52.748	46.495	Data
58.5	70.294	10.578	45.864	52.753	46.528	Data
58.5	69.204	10.531	45.865	52.754	46.528	Data
60.5	69.136	10.491	46.052	52.754	46.498	Data
60.5	69.350	10.510	46.054	52.755	46.498	Data
61.75	69.136	10.491	46.052	52.754	46.498	Data
61.75	69.350	10.510	46.054	52.755	46.498	Data
63	69.136	10.491	46.052	52.754	46.498	Data
63	69.350	10.510	46.054	52.755	46.498	Data
64	69.136	10.491	46.052	52.754	46.498	Data
64	69.350	10.510	46.054	52.755	46.498	Data

Table 215: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.896	10.551	45.892	54.743	46.526	Data
8	69.470	10.525	45.877	54.743	46.525	Data
30	69.470	10.525	45.877	54.743	46.525	Data
30	69.670	10.558	46.052	54.749	46.498	Data
30	70.021	10.498	46.050	54.749	46.498	Data
30	70.896	10.548	45.956	54.75	46.501	Data
30	69.759	10.571	45.953	54.744	46.495	Data
30	70.371	10.439	46.047	54.747	46.494	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.145	10.586	45.959	54.745	46.496	Data
30	71.331	10.602	45.955	54.751	46.501	Data
30	70.553	10.520	46.046	54.746	46.494	Data
30	69.896	10.551	45.892	54.743	46.526	Data
42	70.896	10.548	45.956	54.75	46.501	Data
42	71.331	10.602	45.955	54.751	46.501	Data
43	70.896	10.548	45.956	54.75	46.501	Data
43	71.331	10.602	45.955	54.751	46.501	Data
44	70.896	10.548	45.956	54.75	46.501	Data
44	71.331	10.602	45.955	54.751	46.501	Data
45	70.896	10.548	45.956	54.75	46.501	Data
45	71.331	10.602	45.955	54.751	46.501	Data
46.5	69.896	10.551	45.892	54.743	46.526	Data
46.5	69.470	10.525	45.877	54.743	46.525	Data
48	69.759	10.571	45.953	54.744	46.495	Data
48	69.145	10.586	45.959	54.745	46.496	Data
49	69.759	10.571	45.953	54.744	46.495	Data
49	69.145	10.586	45.959	54.745	46.496	Data
50	69.759	10.571	45.953	54.744	46.495	Data
50	69.145	10.586	45.959	54.745	46.496	Data
51	69.759	10.571	45.953	54.744	46.495	Data
51	69.145	10.586	45.959	54.745	46.496	Data
52.5	69.896	10.551	45.892	54.743	46.526	Data
52.5	69.470	10.525	45.877	54.743	46.525	Data
54	70.371	10.439	46.047	54.747	46.494	Data
54	70.553	10.520	46.046	54.746	46.494	Data
55	70.371	10.439	46.047	54.747	46.494	Data
55	70.553	10.520	46.046	54.746	46.494	Data
56	70.371	10.439	46.047	54.747	46.494	Data
56	70.553	10.520	46.046	54.746	46.494	Data
57	70.371	10.439	46.047	54.747	46.494	Data
57	70.553	10.520	46.046	54.746	46.494	Data
58.5	69.896	10.551	45.892	54.743	46.526	Data
58.5	69.470	10.525	45.877	54.743	46.525	Data
60.5	69.670	10.558	46.052	54.749	46.498	Data
60.5	70.021	10.498	46.050	54.749	46.498	Data
61.75	69.670	10.558	46.052	54.749	46.498	Data
61.75	70.021	10.498	46.050	54.749	46.498	Data
63	69.670	10.558	46.052	54.749	46.498	Data
63	70.021	10.498	46.050	54.749	46.498	Data
64	70.021	10.498	46.050	54.749	46.498	Data
64	69.670	10.558	46.052	54.749	46.498	Data

Table 216: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.608	10.613	45.885	56.749	46.524	Data
8	70.117	10.580	45.873	56.749	46.523	Data
30	70.966	10.612	45.959	56.749	46.501	Data
30	69.608	10.613	45.885	56.749	46.524	Data
30	70.833	10.541	46.049	56.749	46.498	Data
30	71.133	10.544	45.956	56.751	46.501	Data
30	70.117	10.580	45.873	56.749	46.523	Data
30	68.908	10.581	45.953	56.739	46.495	Data
30	71.281	10.496	46.045	56.746	46.494	Data
30	71.138	10.543	46.047	56.746	46.494	Data
30	68.979	10.575	45.950	56.739	46.495	Data
30	69.997	10.536	46.052	56.751	46.498	Data
42	71.133	10.544	45.956	56.751	46.501	Data
42	70.966	10.612	45.959	56.749	46.501	Data
43	71.133	10.544	45.956	56.751	46.501	Data
43	70.966	10.612	45.959	56.749	46.501	Data
44	71.133	10.544	45.956	56.751	46.501	Data
44	70.966	10.612	45.959	56.749	46.501	Data
45	71.133	10.544	45.956	56.751	46.501	Data
45	70.966	10.612	45.959	56.749	46.501	Data
46.5	70.117	10.580	45.873	56.749	46.523	Data
46.5	69.608	10.613	45.885	56.749	46.524	Data
48	68.979	10.575	45.950	56.739	46.495	Data
48	68.908	10.581	45.953	56.739	46.495	Data
49	68.979	10.575	45.950	56.739	46.495	Data
49	68.908	10.581	45.953	56.739	46.495	Data
50	68.979	10.575	45.950	56.739	46.495	Data
50	68.908	10.581	45.953	56.739	46.495	Data
51	68.979	10.575	45.950	56.739	46.495	Data
51	68.908	10.581	45.953	56.739	46.495	Data
52.5	69.608	10.613	45.885	56.749	46.524	Data
52.5	70.117	10.580	45.873	56.749	46.523	Data
54	71.138	10.543	46.047	56.746	46.494	Data
54	71.281	10.496	46.045	56.746	46.494	Data
55	71.138	10.543	46.047	56.746	46.494	Data
55	71.281	10.496	46.045	56.746	46.494	Data
56	71.138	10.543	46.047	56.746	46.494	Data
56	71.281	10.496	46.045	56.746	46.494	Data
57	71.138	10.543	46.047	56.746	46.494	Data
57	71.281	10.496	46.045	56.746	46.494	Data
58.5	69.608	10.613	45.885	56.749	46.524	Data
58.5	70.117	10.580	45.873	56.749	46.523	Data
60.5	69.997	10.536	46.052	56.751	46.498	Data
60.5	70.833	10.541	46.049	56.749	46.498	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.997	10.536	46.052	56.751	46.498	Data
61.75	70.833	10.541	46.049	56.749	46.498	Data
63	69.997	10.536	46.052	56.751	46.498	Data
63	70.833	10.541	46.049	56.749	46.498	Data
64	69.997	10.536	46.052	56.751	46.498	Data
64	70.833	10.541	46.049	56.749	46.498	Data

Table 217: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.688	10.516	45.880	58.75	46.521	Data
8	70.248	10.579	45.877	58.749	46.523	Data
30	67.849	10.551	46.061	58.764	46.499	Data
30	69.324	10.545	45.950	58.748	46.495	Data
30	70.248	10.579	45.877	58.749	46.523	Data
30	69.968	10.486	46.046	58.753	46.494	Data
30	69.266	10.540	45.953	58.749	46.495	Data
30	68.498	10.505	46.056	58.765	46.499	Data
30	71.742	10.597	45.955	58.763	46.501	Data
30	70.012	10.550	46.051	58.756	46.494	Data
30	69.688	10.516	45.880	58.75	46.521	Data
30	71.629	10.495	45.955	58.763	46.501	Data
42	71.742	10.597	45.955	58.763	46.501	Data
42	71.629	10.495	45.955	58.763	46.501	Data
43	71.742	10.597	45.955	58.763	46.501	Data
43	71.629	10.495	45.955	58.763	46.501	Data
44	71.742	10.597	45.955	58.763	46.501	Data
44	71.629	10.495	45.955	58.763	46.501	Data
45	71.742	10.597	45.955	58.763	46.501	Data
45	71.629	10.495	45.955	58.763	46.501	Data
46.5	70.248	10.579	45.877	58.749	46.523	Data
46.5	69.688	10.516	45.880	58.75	46.521	Data
48	69.324	10.545	45.950	58.748	46.495	Data
48	69.266	10.540	45.953	58.749	46.495	Data
49	69.324	10.545	45.950	58.748	46.495	Data
49	69.266	10.540	45.953	58.749	46.495	Data
50	69.324	10.545	45.950	58.748	46.495	Data
50	69.266	10.540	45.953	58.749	46.495	Data
51	69.324	10.545	45.950	58.748	46.495	Data
51	69.266	10.540	45.953	58.749	46.495	Data
52.5	69.688	10.516	45.880	58.75	46.521	Data
52.5	70.248	10.579	45.877	58.749	46.523	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	70.012	10.550	46.051	58.756	46.494	Data
54	69.968	10.486	46.046	58.753	46.494	Data
55	70.012	10.550	46.051	58.756	46.494	Data
55	69.968	10.486	46.046	58.753	46.494	Data
56	70.012	10.550	46.051	58.756	46.494	Data
56	69.968	10.486	46.046	58.753	46.494	Data
57	70.012	10.550	46.051	58.756	46.494	Data
57	69.968	10.486	46.046	58.753	46.494	Data
58.5	69.688	10.516	45.880	58.75	46.521	Data
58.5	70.248	10.579	45.877	58.749	46.523	Data
60.5	67.849	10.551	46.061	58.764	46.499	Data
60.5	68.498	10.505	46.056	58.765	46.499	Data
61.75	67.849	10.551	46.061	58.764	46.499	Data
61.75	68.498	10.505	46.056	58.765	46.499	Data
63	67.849	10.551	46.061	58.764	46.499	Data
63	68.498	10.505	46.056	58.765	46.499	Data
64	67.849	10.551	46.061	58.764	46.499	Data
64	68.498	10.505	46.056	58.765	46.499	Data

Table 218: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.742	10.572	45.857	60.762	46.520	Data
8	69.434	10.556	45.859	60.762	46.519	Data
30	69.434	10.556	45.859	60.762	46.519	Data
30	69.063	10.596	45.948	60.751	46.496	Data
30	69.547	10.544	45.943	60.75	46.495	Data
30	71.028	10.499	46.048	60.768	46.494	Data
30	68.234	10.549	46.060	60.768	46.499	Data
30	68.399	10.544	46.056	60.766	46.499	Data
30	69.742	10.572	45.857	60.762	46.520	Data
30	70.918	10.521	45.950	60.77	46.501	Data
30	71.942	10.495	45.949	60.771	46.501	Data
30	70.465	10.503	46.042	60.769	46.494	Data
42	70.918	10.521	45.950	60.77	46.501	Data
42	71.942	10.495	45.949	60.771	46.501	Data
43	70.918	10.521	45.950	60.77	46.501	Data
43	71.942	10.495	45.949	60.771	46.501	Data
44	70.918	10.521	45.950	60.77	46.501	Data
44	71.942	10.495	45.949	60.771	46.501	Data
45	70.918	10.521	45.950	60.77	46.501	Data
45	71.942	10.495	45.949	60.771	46.501	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	69.434	10.556	45.859	60.762	46.519	Data
46.5	69.742	10.572	45.857	60.762	46.520	Data
48	69.063	10.596	45.948	60.751	46.496	Data
48	69.547	10.544	45.943	60.75	46.495	Data
49	69.063	10.596	45.948	60.751	46.496	Data
49	69.547	10.544	45.943	60.75	46.495	Data
50	69.063	10.596	45.948	60.751	46.496	Data
50	69.547	10.544	45.943	60.75	46.495	Data
51	69.063	10.596	45.948	60.751	46.496	Data
51	69.547	10.544	45.943	60.75	46.495	Data
52.5	69.434	10.556	45.859	60.762	46.519	Data
52.5	69.742	10.572	45.857	60.762	46.520	Data
54	71.028	10.499	46.048	60.768	46.494	Data
54	70.465	10.503	46.042	60.769	46.494	Data
55	71.028	10.499	46.048	60.768	46.494	Data
55	70.465	10.503	46.042	60.769	46.494	Data
56	71.028	10.499	46.048	60.768	46.494	Data
56	70.465	10.503	46.042	60.769	46.494	Data
57	71.028	10.499	46.048	60.768	46.494	Data
57	70.465	10.503	46.042	60.769	46.494	Data
58.5	69.434	10.556	45.859	60.762	46.519	Data
58.5	69.742	10.572	45.857	60.762	46.520	Data
60.5	68.399	10.544	46.056	60.766	46.499	Data
60.5	68.234	10.549	46.060	60.768	46.499	Data
61.75	68.234	10.549	46.060	60.768	46.499	Data
61.75	68.399	10.544	46.056	60.766	46.499	Data
63	68.234	10.549	46.060	60.768	46.499	Data
63	68.399	10.544	46.056	60.766	46.499	Data
64	68.399	10.544	46.056	60.766	46.499	Data
64	68.234	10.549	46.060	60.768	46.499	Data

Table 219: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=60.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=62.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.777	10.556	45.916	62.758	46.513	Data
8	70.265	10.599	45.891	62.757	46.514	Data
30	70.869	10.504	46.049	62.778	46.494	Data
30	69.777	10.556	45.916	62.758	46.513	Data
30	71.630	10.540	46.050	62.779	46.494	Data
30	69.497	10.540	46.056	62.769	46.500	Data
30	69.896	10.495	46.057	62.769	46.499	Data
30	70.265	10.599	45.891	62.757	46.514	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=62.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	72.578	10.582	45.952	62.759	46.501	Data
30	69.564	10.562	45.951	62.765	46.497	Data
30	72.150	10.542	45.953	62.757	46.500	Data
30	69.663	10.551	45.953	62.764	46.496	Data
42	72.578	10.582	45.952	62.759	46.501	Data
42	72.150	10.542	45.953	62.757	46.500	Data
43	72.578	10.582	45.952	62.759	46.501	Data
43	72.150	10.542	45.953	62.757	46.500	Data
44	72.578	10.582	45.952	62.759	46.501	Data
44	72.150	10.542	45.953	62.757	46.500	Data
45	72.578	10.582	45.952	62.759	46.501	Data
45	72.150	10.542	45.953	62.757	46.500	Data
46.5	70.265	10.599	45.891	62.757	46.514	Data
46.5	69.777	10.556	45.916	62.758	46.513	Data
48	69.564	10.562	45.951	62.765	46.497	Data
48	69.663	10.551	45.953	62.764	46.496	Data
49	69.564	10.562	45.951	62.765	46.497	Data
49	69.663	10.551	45.953	62.764	46.496	Data
50	69.564	10.562	45.951	62.765	46.497	Data
50	69.663	10.551	45.953	62.764	46.496	Data
51	69.564	10.562	45.951	62.765	46.497	Data
51	69.663	10.551	45.953	62.764	46.496	Data
52.5	70.265	10.599	45.891	62.757	46.514	Data
52.5	69.777	10.556	45.916	62.758	46.513	Data
54	71.630	10.540	46.050	62.779	46.494	Data
54	70.869	10.504	46.049	62.778	46.494	Data
55	71.630	10.540	46.050	62.779	46.494	Data
55	70.869	10.504	46.049	62.778	46.494	Data
56	71.630	10.540	46.050	62.779	46.494	Data
56	70.869	10.504	46.049	62.778	46.494	Data
57	71.630	10.540	46.050	62.779	46.494	Data
57	70.869	10.504	46.049	62.778	46.494	Data
58.5	70.265	10.599	45.891	62.757	46.514	Data
58.5	69.777	10.556	45.916	62.758	46.513	Data
60.5	69.497	10.540	46.056	62.769	46.500	Data
60.5	69.896	10.495	46.057	62.769	46.499	Data
61.75	69.497	10.540	46.056	62.769	46.500	Data
61.75	69.896	10.495	46.057	62.769	46.499	Data
63	69.896	10.495	46.057	62.769	46.499	Data
63	69.497	10.540	46.056	62.769	46.500	Data
64	69.497	10.540	46.056	62.769	46.500	Data
64	69.896	10.495	46.057	62.769	46.499	Data

Table 220: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=62.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.397	10.525	45.945	64.75	46.510	Data
8	69.997	10.540	45.942	64.749	46.509	Data
30	69.997	10.540	45.942	64.749	46.509	Data
30	69.919	10.549	45.940	64.742	46.497	Data
30	69.715	10.571	45.952	64.744	46.500	Data
30	69.557	10.507	46.057	64.764	46.501	Data
30	69.776	10.542	46.051	64.763	46.501	Data
30	70.837	10.526	46.041	64.762	46.493	Data
30	69.540	10.570	45.948	64.742	46.498	Data
30	70.095	10.586	45.952	64.745	46.499	Data
30	70.397	10.525	45.945	64.75	46.510	Data
30	70.373	10.480	46.044	64.763	46.494	Data
42	70.095	10.586	45.952	64.745	46.499	Data
42	69.715	10.571	45.952	64.744	46.500	Data
43	70.095	10.586	45.952	64.745	46.499	Data
43	69.715	10.571	45.952	64.744	46.500	Data
44	70.095	10.586	45.952	64.745	46.499	Data
44	69.715	10.571	45.952	64.744	46.500	Data
45	70.095	10.586	45.952	64.745	46.499	Data
45	69.715	10.571	45.952	64.744	46.500	Data
46.5	70.397	10.525	45.945	64.75	46.510	Data
46.5	69.997	10.540	45.942	64.749	46.509	Data
48	69.540	10.570	45.948	64.742	46.498	Data
48	69.919	10.549	45.940	64.742	46.497	Data
49	69.540	10.570	45.948	64.742	46.498	Data
49	69.919	10.549	45.940	64.742	46.497	Data
50	69.540	10.570	45.948	64.742	46.498	Data
50	69.919	10.549	45.940	64.742	46.497	Data
51	69.540	10.570	45.948	64.742	46.498	Data
51	69.919	10.549	45.940	64.742	46.497	Data
52.5	70.397	10.525	45.945	64.75	46.510	Data
52.5	69.997	10.540	45.942	64.749	46.509	Data
54	70.837	10.526	46.041	64.762	46.493	Data
54	70.373	10.480	46.044	64.763	46.494	Data
55	70.837	10.526	46.041	64.762	46.493	Data
55	70.373	10.480	46.044	64.763	46.494	Data
56	70.837	10.526	46.041	64.762	46.493	Data
56	70.373	10.480	46.044	64.763	46.494	Data
57	70.837	10.526	46.041	64.762	46.493	Data
57	70.373	10.480	46.044	64.763	46.494	Data
58.5	70.397	10.525	45.945	64.75	46.510	Data
58.5	69.997	10.540	45.942	64.749	46.509	Data
60.5	69.557	10.507	46.057	64.764	46.501	Data
60.5	69.776	10.542	46.051	64.763	46.501	Data

VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.557	10.507	46.057	64.764	46.501	Data
61.75	69.776	10.542	46.051	64.763	46.501	Data
63	69.557	10.507	46.057	64.764	46.501	Data
63	69.776	10.542	46.051	64.763	46.501	Data
64	69.557	10.507	46.057	64.764	46.501	Data
64	69.776	10.542	46.051	64.763	46.501	Data

Table 221: VG horizontal sweep: q=70 RO-tip VG 46.5 (in) VG AoA 8 +Wing11 — VG at span y=64.5 (in)

D.16. Horizontal VG vortex sweep at height z=44.5, q=70, α_{VG}=8, α_W=11, RO-tip

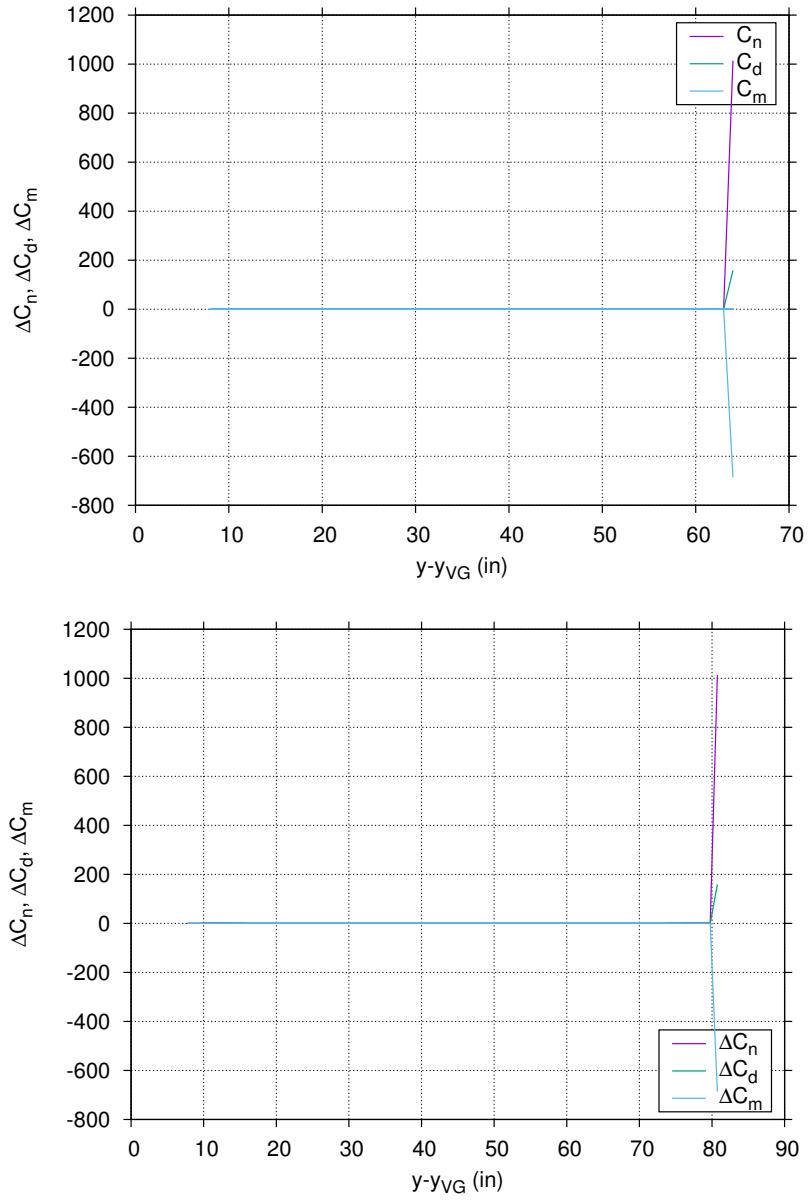

Figure 69. VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — (Data)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.260	10.558	45.863	43.736	44.513	Data
8	68.696	10.532	45.860	43.735	44.514	Data
30	67.761	10.567	45.951	43.758	44.492	Data
30	68.696	10.532	45.860	43.735	44.514	Data
30	69.260	10.558	45.863	43.736	44.513	Data
30	69.289	10.564	45.953	43.755	44.483	Data
30	70.660	10.516	46.049	43.753	44.502	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.902	10.529	46.038	43.75	44.500	Data
30	67.337	10.531	45.944	43.757	44.493	Data
30	69.389	10.581	45.952	43.753	44.478	Data
30	68.396	10.496	46.040	43.751	44.500	Data
30	69.521	10.529	46.046	43.75	44.502	Data
42	67.761	10.567	45.951	43.758	44.492	Data
42	67.337	10.531	45.944	43.757	44.493	Data
43	67.761	10.567	45.951	43.758	44.492	Data
43	67.337	10.531	45.944	43.757	44.493	Data
44	67.761	10.567	45.951	43.758	44.492	Data
44	67.337	10.531	45.944	43.757	44.493	Data
45	67.761	10.567	45.951	43.758	44.492	Data
45	67.337	10.531	45.944	43.757	44.493	Data
46.5	69.260	10.558	45.863	43.736	44.513	Data
46.5	68.696	10.532	45.860	43.735	44.514	Data
48	69.289	10.564	45.953	43.755	44.483	Data
48	69.389	10.581	45.952	43.753	44.478	Data
49	69.289	10.564	45.953	43.755	44.483	Data
49	69.389	10.581	45.952	43.753	44.478	Data
50	69.289	10.564	45.953	43.755	44.483	Data
50	69.389	10.581	45.952	43.753	44.478	Data
51	69.289	10.564	45.953	43.755	44.483	Data
51	69.389	10.581	45.952	43.753	44.478	Data
52.5	68.696	10.532	45.860	43.735	44.514	Data
52.5	69.260	10.558	45.863	43.736	44.513	Data
54	68.902	10.529	46.038	43.75	44.500	Data
54	68.396	10.496	46.040	43.751	44.500	Data
55	68.902	10.529	46.038	43.75	44.500	Data
55	68.396	10.496	46.040	43.751	44.500	Data
56	68.902	10.529	46.038	43.75	44.500	Data
56	68.396	10.496	46.040	43.751	44.500	Data
57	68.902	10.529	46.038	43.75	44.500	Data
57	68.396	10.496	46.040	43.751	44.500	Data
58.5	68.696	10.532	45.860	43.735	44.514	Data
58.5	69.260	10.558	45.863	43.736	44.513	Data
60.5	70.660	10.516	46.049	43.753	44.502	Data
60.5	69.521	10.529	46.046	43.75	44.502	Data
61.75	70.660	10.516	46.049	43.753	44.502	Data
61.75	69.521	10.529	46.046	43.75	44.502	Data
63	70.660	10.516	46.049	43.753	44.502	Data
63	69.521	10.529	46.046	43.75	44.502	Data
64	69.521	10.529	46.046	43.75	44.502	Data
64	70.660	10.516	46.049	43.753	44.502	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 222: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.237	10.590	45.866	44.755	44.515	Data
8	69.640	10.556	45.867	44.754	44.516	Data
30	69.640	10.556	45.867	44.754	44.516	Data
30	68.025	10.511	45.943	44.748	44.492	Data
30	68.987	10.492	46.038	44.752	44.500	Data
30	69.657	10.585	45.951	44.753	44.467	Data
30	67.513	10.542	45.947	44.748	44.492	Data
30	69.265	10.545	45.946	44.754	44.465	Data
30	69.237	10.590	45.866	44.755	44.515	Data
30	68.151	10.572	46.038	44.753	44.500	Data
30	69.681	10.512	46.056	44.743	44.498	Data
30	69.766	10.501	46.053	44.745	44.499	Data
42	68.025	10.511	45.943	44.748	44.492	Data
42	67.513	10.542	45.947	44.748	44.492	Data
43	68.025	10.511	45.943	44.748	44.492	Data
43	67.513	10.542	45.947	44.748	44.492	Data
44	68.025	10.511	45.943	44.748	44.492	Data
44	67.513	10.542	45.947	44.748	44.492	Data
45	68.025	10.511	45.943	44.748	44.492	Data
45	67.513	10.542	45.947	44.748	44.492	Data
46.5	69.237	10.590	45.866	44.755	44.515	Data
46.5	69.640	10.556	45.867	44.754	44.516	Data
48	69.265	10.545	45.946	44.754	44.465	Data
48	69.657	10.585	45.951	44.753	44.467	Data
49	69.265	10.545	45.946	44.754	44.465	Data
49	69.657	10.585	45.951	44.753	44.467	Data
50	69.265	10.545	45.946	44.754	44.465	Data
50	69.657	10.585	45.951	44.753	44.467	Data
51	69.265	10.545	45.946	44.754	44.465	Data
51	69.657	10.585	45.951	44.753	44.467	Data
52.5	69.237	10.590	45.866	44.755	44.515	Data
52.5	69.640	10.556	45.867	44.754	44.516	Data
54	68.987	10.492	46.038	44.752	44.500	Data
54	68.151	10.572	46.038	44.753	44.500	Data
55	68.987	10.492	46.038	44.752	44.500	Data
55	68.151	10.572	46.038	44.753	44.500	Data
56	68.987	10.492	46.038	44.752	44.500	Data
56	68.151	10.572	46.038	44.753	44.500	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	68.987	10.492	46.038	44.752	44.500	Data
57	68.151	10.572	46.038	44.753	44.500	Data
58.5	69.237	10.590	45.866	44.755	44.515	Data
58.5	69.640	10.556	45.867	44.754	44.516	Data
60.5	69.681	10.512	46.056	44.743	44.498	Data
60.5	69.766	10.501	46.053	44.745	44.499	Data
61.75	69.681	10.512	46.056	44.743	44.498	Data
61.75	69.766	10.501	46.053	44.745	44.499	Data
63	69.681	10.512	46.056	44.743	44.498	Data
63	69.766	10.501	46.053	44.745	44.499	Data
64	69.681	10.512	46.056	44.743	44.498	Data
64	69.766	10.501	46.053	44.745	44.499	Data

Table 223: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.761	10.553	45.867	46.749	44.517	Data
8	69.782	10.506	45.858	46.749	44.517	Data
30	67.930	10.579	45.945	46.743	44.492	Data
30	70.395	10.533	46.057	46.745	44.499	Data
30	69.738	10.530	45.952	46.742	44.459	Data
30	70.091	10.490	46.056	46.744	44.499	Data
30	69.241	10.534	45.945	46.741	44.458	Data
30	68.677	10.527	46.038	46.742	44.500	Data
30	67.976	10.561	46.040	46.742	44.500	Data
30	67.727	10.494	45.946	46.743	44.492	Data
30	69.761	10.553	45.867	46.749	44.517	Data
30	69.782	10.506	45.858	46.749	44.517	Data
42	67.727	10.494	45.946	46.743	44.492	Data
42	67.930	10.579	45.945	46.743	44.492	Data
43	67.727	10.494	45.946	46.743	44.492	Data
43	67.930	10.579	45.945	46.743	44.492	Data
44	67.727	10.494	45.946	46.743	44.492	Data
44	67.930	10.579	45.945	46.743	44.492	Data
45	67.727	10.494	45.946	46.743	44.492	Data
45	67.930	10.579	45.945	46.743	44.492	Data
46.5	69.761	10.553	45.867	46.749	44.517	Data
46.5	69.782	10.506	45.858	46.749	44.517	Data
48	69.241	10.534	45.945	46.741	44.458	Data
48	69.738	10.530	45.952	46.742	44.459	Data
49	69.241	10.534	45.945	46.741	44.458	Data
49	69.738	10.530	45.952	46.742	44.459	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	69.241	10.534	45.945	46.741	44.458	Data
50	69.738	10.530	45.952	46.742	44.459	Data
51	69.241	10.534	45.945	46.741	44.458	Data
51	69.738	10.530	45.952	46.742	44.459	Data
52.5	69.782	10.506	45.858	46.749	44.517	Data
52.5	69.761	10.553	45.867	46.749	44.517	Data
54	68.677	10.527	46.038	46.742	44.500	Data
54	67.976	10.561	46.040	46.742	44.500	Data
55	68.677	10.527	46.038	46.742	44.500	Data
55	67.976	10.561	46.040	46.742	44.500	Data
56	68.677	10.527	46.038	46.742	44.500	Data
56	67.976	10.561	46.040	46.742	44.500	Data
57	68.677	10.527	46.038	46.742	44.500	Data
57	67.976	10.561	46.040	46.742	44.500	Data
58.5	69.782	10.506	45.858	46.749	44.517	Data
58.5	69.761	10.553	45.867	46.749	44.517	Data
60.5	70.091	10.490	46.056	46.744	44.499	Data
60.5	70.395	10.533	46.057	46.745	44.499	Data
61.75	70.091	10.490	46.056	46.744	44.499	Data
61.75	70.395	10.533	46.057	46.745	44.499	Data
63	70.091	10.490	46.056	46.744	44.499	Data
63	70.395	10.533	46.057	46.745	44.499	Data
64	70.091	10.490	46.056	46.744	44.499	Data
64	70.395	10.533	46.057	46.745	44.499	Data

Table 224: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.047	10.490	45.871	48.751	44.519	Data
8	70.603	10.545	45.860	48.751	44.519	Data
30	70.506	10.532	46.053	48.743	44.498	Data
30	69.959	10.548	45.943	48.75	44.451	Data
30	67.756	10.565	45.955	48.751	44.492	Data
30	70.047	10.490	45.871	48.751	44.519	Data
30	70.015	10.507	45.946	48.749	44.452	Data
30	68.589	10.562	45.948	48.752	44.492	Data
30	71.013	10.511	46.051	48.744	44.498	Data
30	70.603	10.545	45.860	48.751	44.519	Data
30	68.796	10.581	46.040	48.747	44.500	Data
30	69.023	10.554	46.034	48.747	44.500	Data
42	68.589	10.562	45.948	48.752	44.492	Data
42	67.756	10.565	45.955	48.751	44.492	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	68.589	10.562	45.948	48.752	44.492	Data
43	67.756	10.565	45.955	48.751	44.492	Data
44	68.589	10.562	45.948	48.752	44.492	Data
44	67.756	10.565	45.955	48.751	44.492	Data
45	68.589	10.562	45.948	48.752	44.492	Data
45	67.756	10.565	45.955	48.751	44.492	Data
46.5	70.603	10.545	45.860	48.751	44.519	Data
46.5	70.047	10.490	45.871	48.751	44.519	Data
48	70.015	10.507	45.946	48.749	44.452	Data
48	69.959	10.548	45.943	48.75	44.451	Data
49	70.015	10.507	45.946	48.749	44.452	Data
49	69.959	10.548	45.943	48.75	44.451	Data
50	70.015	10.507	45.946	48.749	44.452	Data
50	69.959	10.548	45.943	48.75	44.451	Data
51	70.015	10.507	45.946	48.749	44.452	Data
51	69.959	10.548	45.943	48.75	44.451	Data
52.5	70.603	10.545	45.860	48.751	44.519	Data
52.5	70.047	10.490	45.871	48.751	44.519	Data
54	68.796	10.581	46.040	48.747	44.500	Data
54	69.023	10.554	46.034	48.747	44.500	Data
55	68.796	10.581	46.040	48.747	44.500	Data
55	69.023	10.554	46.034	48.747	44.500	Data
56	68.796	10.581	46.040	48.747	44.500	Data
56	69.023	10.554	46.034	48.747	44.500	Data
57	68.796	10.581	46.040	48.747	44.500	Data
57	69.023	10.554	46.034	48.747	44.500	Data
58.5	70.603	10.545	45.860	48.751	44.519	Data
58.5	70.047	10.490	45.871	48.751	44.519	Data
60.5	70.506	10.532	46.053	48.743	44.498	Data
60.5	71.013	10.511	46.051	48.744	44.498	Data
61.75	70.506	10.532	46.053	48.743	44.498	Data
61.75	71.013	10.511	46.051	48.744	44.498	Data
63	70.506	10.532	46.053	48.743	44.498	Data
63	71.013	10.511	46.051	48.744	44.498	Data
64	71.013	10.511	46.051	48.744	44.498	Data
64	70.506	10.532	46.053	48.743	44.498	Data

Table 225: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.607	10.507	45.864	50.754	44.521	Data
8	70.527	10.517	45.868	50.754	44.520	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.888	10.588	45.946	50.758	44.445	Data
30	70.607	10.507	45.864	50.754	44.521	Data
30	69.491	10.565	46.030	50.754	44.500	Data
30	70.728	10.519	46.052	50.759	44.498	Data
30	70.527	10.517	45.868	50.754	44.520	Data
30	68.563	10.517	46.032	50.754	44.501	Data
30	68.364	10.557	45.957	50.756	44.492	Data
30	71.203	10.584	46.057	50.757	44.498	Data
30	70.361	10.570	45.944	50.758	44.446	Data
30	68.623	10.565	45.949	50.756	44.492	Data
42	68.364	10.557	45.957	50.756	44.492	Data
42	68.623	10.565	45.949	50.756	44.492	Data
43	68.364	10.557	45.957	50.756	44.492	Data
43	68.623	10.565	45.949	50.756	44.492	Data
44	68.364	10.557	45.957	50.756	44.492	Data
44	68.623	10.565	45.949	50.756	44.492	Data
45	68.364	10.557	45.957	50.756	44.492	Data
45	68.623	10.565	45.949	50.756	44.492	Data
46.5	70.607	10.507	45.864	50.754	44.521	Data
46.5	70.527	10.517	45.868	50.754	44.520	Data
48	70.888	10.588	45.946	50.758	44.445	Data
48	70.361	10.570	45.944	50.758	44.446	Data
49	70.888	10.588	45.946	50.758	44.445	Data
49	70.361	10.570	45.944	50.758	44.446	Data
50	70.888	10.588	45.946	50.758	44.445	Data
50	70.361	10.570	45.944	50.758	44.446	Data
51	70.888	10.588	45.946	50.758	44.445	Data
51	70.361	10.570	45.944	50.758	44.446	Data
52.5	70.607	10.507	45.864	50.754	44.521	Data
52.5	70.527	10.517	45.868	50.754	44.520	Data
54	69.491	10.565	46.030	50.754	44.500	Data
54	68.563	10.517	46.032	50.754	44.501	Data
55	69.491	10.565	46.030	50.754	44.500	Data
55	68.563	10.517	46.032	50.754	44.501	Data
56	69.491	10.565	46.030	50.754	44.500	Data
56	68.563	10.517	46.032	50.754	44.501	Data
57	69.491	10.565	46.030	50.754	44.500	Data
57	68.563	10.517	46.032	50.754	44.501	Data
58.5	70.607	10.507	45.864	50.754	44.521	Data
58.5	70.527	10.517	45.868	50.754	44.520	Data
60.5	71.203	10.584	46.057	50.757	44.498	Data
60.5	70.728	10.519	46.052	50.759	44.498	Data
61.75	71.203	10.584	46.057	50.757	44.498	Data
61.75	70.728	10.519	46.052	50.759	44.498	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	71.203	10.584	46.057	50.757	44.498	Data
63	70.728	10.519	46.052	50.759	44.498	Data
64	71.203	10.584	46.057	50.757	44.498	Data
64	70.728	10.519	46.052	50.759	44.498	Data

Table 226: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.378	10.545	45.872	52.748	44.523	Data
8	71.034	10.553	45.858	52.749	44.522	Data
30	70.378	10.545	45.872	52.748	44.523	Data
30	71.710	10.548	46.048	52.751	44.498	Data
30	69.259	10.487	46.040	52.752	44.501	Data
30	69.232	10.553	45.959	52.748	44.492	Data
30	68.848	10.552	45.950	52.745	44.492	Data
30	70.832	10.604	45.945	52.746	44.440	Data
30	71.056	10.536	45.949	52.747	44.439	Data
30	71.741	10.502	46.040	52.751	44.498	Data
30	71.034	10.553	45.858	52.749	44.522	Data
30	69.281	10.533	46.039	52.754	44.501	Data
42	68.848	10.552	45.950	52.745	44.492	Data
42	69.232	10.553	45.959	52.748	44.492	Data
43	68.848	10.552	45.950	52.745	44.492	Data
43	69.232	10.553	45.959	52.748	44.492	Data
44	68.848	10.552	45.950	52.745	44.492	Data
44	69.232	10.553	45.959	52.748	44.492	Data
45	68.848	10.552	45.950	52.745	44.492	Data
45	69.232	10.553	45.959	52.748	44.492	Data
46.5	70.378	10.545	45.872	52.748	44.523	Data
46.5	71.034	10.553	45.858	52.749	44.522	Data
48	71.056	10.536	45.949	52.747	44.439	Data
48	70.832	10.604	45.945	52.746	44.440	Data
49	71.056	10.536	45.949	52.747	44.439	Data
49	70.832	10.604	45.945	52.746	44.440	Data
50	71.056	10.536	45.949	52.747	44.439	Data
50	70.832	10.604	45.945	52.746	44.440	Data
51	71.056	10.536	45.949	52.747	44.439	Data
51	70.832	10.604	45.945	52.746	44.440	Data
52.5	70.378	10.545	45.872	52.748	44.523	Data
52.5	71.034	10.553	45.858	52.749	44.522	Data
54	69.281	10.533	46.039	52.754	44.501	Data
54	69.259	10.487	46.040	52.752	44.501	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	69.281	10.533	46.039	52.754	44.501	Data
55	69.259	10.487	46.040	52.752	44.501	Data
56	69.281	10.533	46.039	52.754	44.501	Data
56	69.259	10.487	46.040	52.752	44.501	Data
57	69.281	10.533	46.039	52.754	44.501	Data
57	69.259	10.487	46.040	52.752	44.501	Data
58.5	70.378	10.545	45.872	52.748	44.523	Data
58.5	71.034	10.553	45.858	52.749	44.522	Data
60.5	71.741	10.502	46.040	52.751	44.498	Data
60.5	71.710	10.548	46.048	52.751	44.498	Data
61.75	71.741	10.502	46.040	52.751	44.498	Data
61.75	71.710	10.548	46.048	52.751	44.498	Data
63	71.741	10.502	46.040	52.751	44.498	Data
63	71.710	10.548	46.048	52.751	44.498	Data
64	71.710	10.548	46.048	52.751	44.498	Data
64	71.741	10.502	46.040	52.751	44.498	Data

Table 227: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.582	10.550	45.868	54.747	44.524	Data
8	70.292	10.554	45.865	54.747	44.524	Data
30	69.625	10.528	45.950	54.748	44.500	Data
30	72.322	10.475	46.052	54.737	44.497	Data
30	69.576	10.570	45.951	54.753	44.492	Data
30	70.582	10.550	45.868	54.747	44.524	Data
30	72.058	10.494	46.054	54.739	44.498	Data
30	69.501	10.514	46.040	54.742	44.501	Data
30	68.723	10.553	46.038	54.742	44.501	Data
30	69.068	10.599	45.956	54.747	44.500	Data
30	69.730	10.525	45.955	54.753	44.492	Data
30	70.292	10.554	45.865	54.747	44.524	Data
42	69.576	10.570	45.951	54.753	44.492	Data
42	69.730	10.525	45.955	54.753	44.492	Data
43	69.576	10.570	45.951	54.753	44.492	Data
43	69.730	10.525	45.955	54.753	44.492	Data
44	69.576	10.570	45.951	54.753	44.492	Data
44	69.730	10.525	45.955	54.753	44.492	Data
45	69.576	10.570	45.951	54.753	44.492	Data
45	69.730	10.525	45.955	54.753	44.492	Data
46.5	70.582	10.550	45.868	54.747	44.524	Data
46.5	70.292	10.554	45.865	54.747	44.524	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	69.068	10.599	45.956	54.747	44.500	Data
48	69.625	10.528	45.950	54.748	44.500	Data
49	69.068	10.599	45.956	54.747	44.500	Data
49	69.625	10.528	45.950	54.748	44.500	Data
50	69.068	10.599	45.956	54.747	44.500	Data
50	69.625	10.528	45.950	54.748	44.500	Data
51	69.068	10.599	45.956	54.747	44.500	Data
51	69.625	10.528	45.950	54.748	44.500	Data
52.5	70.292	10.554	45.865	54.747	44.524	Data
52.5	70.582	10.550	45.868	54.747	44.524	Data
54	69.501	10.514	46.040	54.742	44.501	Data
54	68.723	10.553	46.038	54.742	44.501	Data
55	69.501	10.514	46.040	54.742	44.501	Data
55	68.723	10.553	46.038	54.742	44.501	Data
56	68.723	10.553	46.038	54.742	44.501	Data
56	69.501	10.514	46.040	54.742	44.501	Data
57	68.723	10.553	46.038	54.742	44.501	Data
57	69.501	10.514	46.040	54.742	44.501	Data
58.5	70.292	10.554	45.865	54.747	44.524	Data
58.5	70.582	10.550	45.868	54.747	44.524	Data
60.5	72.322	10.475	46.052	54.737	44.497	Data
60.5	72.058	10.494	46.054	54.739	44.498	Data
61.75	72.322	10.475	46.052	54.737	44.497	Data
61.75	72.058	10.494	46.054	54.739	44.498	Data
63	72.322	10.475	46.052	54.737	44.497	Data
63	72.058	10.494	46.054	54.739	44.498	Data
64	72.322	10.475	46.052	54.737	44.497	Data
64	72.058	10.494	46.054	54.739	44.498	Data

Table 228: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.109	10.575	45.863	56.748	44.525	Data
8	69.729	10.562	45.871	56.748	44.525	Data
30	71.109	10.575	45.863	56.748	44.525	Data
30	69.641	10.528	45.953	56.752	44.493	Data
30	69.603	10.514	45.949	56.745	44.499	Data
30	72.252	10.481	46.051	56.744	44.498	Data
30	69.729	10.562	45.871	56.748	44.525	Data
30	72.124	10.439	46.050	56.745	44.497	Data
30	70.107	10.525	46.035	56.748	44.500	Data
30	69.532	10.596	45.952	56.75	44.493	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.886	10.542	45.954	56.744	44.499	Data
30	69.390	10.533	46.041	56.748	44.501	Data
42	69.641	10.528	45.953	56.752	44.493	Data
42	69.532	10.596	45.952	56.75	44.493	Data
43	69.641	10.528	45.953	56.752	44.493	Data
43	69.532	10.596	45.952	56.75	44.493	Data
44	69.641	10.528	45.953	56.752	44.493	Data
44	69.532	10.596	45.952	56.75	44.493	Data
45	69.641	10.528	45.953	56.752	44.493	Data
45	69.532	10.596	45.952	56.75	44.493	Data
46.5	71.109	10.575	45.863	56.748	44.525	Data
46.5	69.729	10.562	45.871	56.748	44.525	Data
48	69.603	10.514	45.949	56.745	44.499	Data
48	69.886	10.542	45.954	56.744	44.499	Data
49	69.603	10.514	45.949	56.745	44.499	Data
49	69.886	10.542	45.954	56.744	44.499	Data
50	69.603	10.514	45.949	56.745	44.499	Data
50	69.886	10.542	45.954	56.744	44.499	Data
51	69.603	10.514	45.949	56.745	44.499	Data
51	69.886	10.542	45.954	56.744	44.499	Data
52.5	71.109	10.575	45.863	56.748	44.525	Data
52.5	69.729	10.562	45.871	56.748	44.525	Data
54	70.107	10.525	46.035	56.748	44.500	Data
54	69.390	10.533	46.041	56.748	44.501	Data
55	70.107	10.525	46.035	56.748	44.500	Data
55	69.390	10.533	46.041	56.748	44.501	Data
56	69.390	10.533	46.041	56.748	44.501	Data
56	70.107	10.525	46.035	56.748	44.500	Data
57	69.390	10.533	46.041	56.748	44.501	Data
57	70.107	10.525	46.035	56.748	44.500	Data
58.5	71.109	10.575	45.863	56.748	44.525	Data
58.5	69.729	10.562	45.871	56.748	44.525	Data
60.5	72.252	10.481	46.051	56.744	44.498	Data
60.5	72.124	10.439	46.050	56.745	44.497	Data
61.75	72.252	10.481	46.051	56.744	44.498	Data
61.75	72.124	10.439	46.050	56.745	44.497	Data
63	72.252	10.481	46.051	56.744	44.498	Data
63	72.124	10.439	46.050	56.745	44.497	Data
64	72.124	10.439	46.050	56.745	44.497	Data
64	72.252	10.481	46.051	56.744	44.498	Data

Table 229: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.965	10.546	45.867	58.744	44.526	Data
8	70.386	10.496	45.873	58.745	44.526	Data
30	69.965	10.546	45.867	58.744	44.526	Data
30	69.385	10.462	46.043	58.765	44.495	Data
30	69.769	10.587	46.028	58.759	44.466	Data
30	69.987	10.575	45.957	58.75	44.493	Data
30	70.118	10.519	46.033	58.759	44.501	Data
30	69.136	10.588	45.948	58.75	44.493	Data
30	69.868	10.529	45.941	58.743	44.499	Data
30	69.952	10.540	46.050	58.758	44.497	Data
30	69.926	10.593	45.953	58.744	44.499	Data
30	69.646	10.557	46.035	58.764	44.495	Data
30	70.000	10.547	46.047	58.76	44.497	Data
30	70.386	10.496	45.873	58.745	44.526	Data
42	69.136	10.588	45.948	58.75	44.493	Data
42	69.987	10.575	45.957	58.75	44.493	Data
43	69.136	10.588	45.948	58.75	44.493	Data
43	69.987	10.575	45.957	58.75	44.493	Data
44	69.136	10.588	45.948	58.75	44.493	Data
44	69.987	10.575	45.957	58.75	44.493	Data
45	69.136	10.588	45.948	58.75	44.493	Data
45	69.987	10.575	45.957	58.75	44.493	Data
46.5	69.965	10.546	45.867	58.744	44.526	Data
46.5	70.386	10.496	45.873	58.745	44.526	Data
48	69.926	10.593	45.953	58.744	44.499	Data
48	69.868	10.529	45.941	58.743	44.499	Data
49	69.926	10.593	45.953	58.744	44.499	Data
49	69.868	10.529	45.941	58.743	44.499	Data
50	69.926	10.593	45.953	58.744	44.499	Data
50	69.868	10.529	45.941	58.743	44.499	Data
51	69.926	10.593	45.953	58.744	44.499	Data
51	69.868	10.529	45.941	58.743	44.499	Data
52.5	69.965	10.546	45.867	58.744	44.526	Data
52.5	70.386	10.496	45.873	58.745	44.526	Data
54	69.385	10.462	46.043	58.765	44.495	Data
54	69.769	10.587	46.028	58.759	44.466	Data
54	70.118	10.519	46.033	58.759	44.501	Data
54	69.646	10.557	46.035	58.764	44.495	Data
55	69.385	10.462	46.043	58.765	44.495	Data
55	69.769	10.587	46.028	58.759	44.466	Data
55	70.118	10.519	46.033	58.759	44.501	Data
55	69.646	10.557	46.035	58.764	44.495	Data
56	69.385	10.462	46.043	58.765	44.495	Data
56	69.769	10.587	46.028	58.759	44.466	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	70.118	10.519	46.033	58.759	44.501	Data
56	69.646	10.557	46.035	58.764	44.495	Data
57	69.385	10.462	46.043	58.765	44.495	Data
57	69.769	10.587	46.028	58.759	44.466	Data
57	70.118	10.519	46.033	58.759	44.501	Data
57	69.646	10.557	46.035	58.764	44.495	Data
58.5	69.965	10.546	45.867	58.744	44.526	Data
58.5	70.386	10.496	45.873	58.745	44.526	Data
60.5	70.000	10.547	46.047	58.76	44.497	Data
60.5	69.952	10.540	46.050	58.758	44.497	Data
61.75	70.000	10.547	46.047	58.76	44.497	Data
61.75	69.952	10.540	46.050	58.758	44.497	Data
63	70.000	10.547	46.047	58.76	44.497	Data
63	69.952	10.540	46.050	58.758	44.497	Data
64	70.000	10.547	46.047	58.76	44.497	Data
64	69.952	10.540	46.050	58.758	44.497	Data

Table 230: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.193	10.539	45.875	60.754	44.528	Data
8	71.250	10.554	45.872	60.753	44.527	Data
30	70.146	10.578	45.949	60.748	44.499	Data
30	70.559	10.486	46.050	60.764	44.497	Data
30	71.193	10.539	45.875	60.754	44.528	Data
30	69.682	10.531	45.952	60.753	44.494	Data
30	70.537	10.525	46.046	60.763	44.497	Data
30	71.250	10.554	45.872	60.753	44.527	Data
30	69.746	10.575	45.950	60.751	44.494	Data
30	69.905	10.510	45.948	60.747	44.499	Data
30	70.549	10.451	46.039	60.765	44.480	Data
30	70.640	10.520	46.043	60.766	44.486	Data
42	69.682	10.531	45.952	60.753	44.494	Data
42	69.746	10.575	45.950	60.751	44.494	Data
43	69.682	10.531	45.952	60.753	44.494	Data
43	69.746	10.575	45.950	60.751	44.494	Data
44	69.682	10.531	45.952	60.753	44.494	Data
44	69.746	10.575	45.950	60.751	44.494	Data
45	69.682	10.531	45.952	60.753	44.494	Data
45	69.746	10.575	45.950	60.751	44.494	Data
46.5	71.193	10.539	45.875	60.754	44.528	Data
46.5	71.250	10.554	45.872	60.753	44.527	Data

VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	70.146	10.578	45.949	60.748	44.499	Data
48	69.905	10.510	45.948	60.747	44.499	Data
49	70.146	10.578	45.949	60.748	44.499	Data
49	69.905	10.510	45.948	60.747	44.499	Data
50	70.146	10.578	45.949	60.748	44.499	Data
50	69.905	10.510	45.948	60.747	44.499	Data
51	70.146	10.578	45.949	60.748	44.499	Data
51	69.905	10.510	45.948	60.747	44.499	Data
52.5	71.193	10.539	45.875	60.754	44.528	Data
52.5	71.250	10.554	45.872	60.753	44.527	Data
54	70.549	10.451	46.039	60.765	44.480	Data
54	70.640	10.520	46.043	60.766	44.486	Data
55	70.549	10.451	46.039	60.765	44.480	Data
55	70.640	10.520	46.043	60.766	44.486	Data
56	70.549	10.451	46.039	60.765	44.480	Data
56	70.640	10.520	46.043	60.766	44.486	Data
57	70.549	10.451	46.039	60.765	44.480	Data
57	70.640	10.520	46.043	60.766	44.486	Data
58.5	71.193	10.539	45.875	60.754	44.528	Data
58.5	71.250	10.554	45.872	60.753	44.527	Data
60.5	70.559	10.486	46.050	60.764	44.497	Data
60.5	70.537	10.525	46.046	60.763	44.497	Data
61.75	70.559	10.486	46.050	60.764	44.497	Data
61.75	70.537	10.525	46.046	60.763	44.497	Data
63	70.559	10.486	46.050	60.764	44.497	Data
63	70.537	10.525	46.046	60.763	44.497	Data
64	70.537	10.525	46.046	60.763	44.497	Data
64	70.559	10.486	46.050	60.764	44.497	Data

Table 231: VG horizontal sweep: q=70 RO-tip VG 44.5 (in) VG AoA 8 +Wing11 — VG at span y=60.5 (in)

D.17. Horizontal VG vortex sweep at height z=42.5, q=70, α_{VG}=8, α_W=11, RO-tip

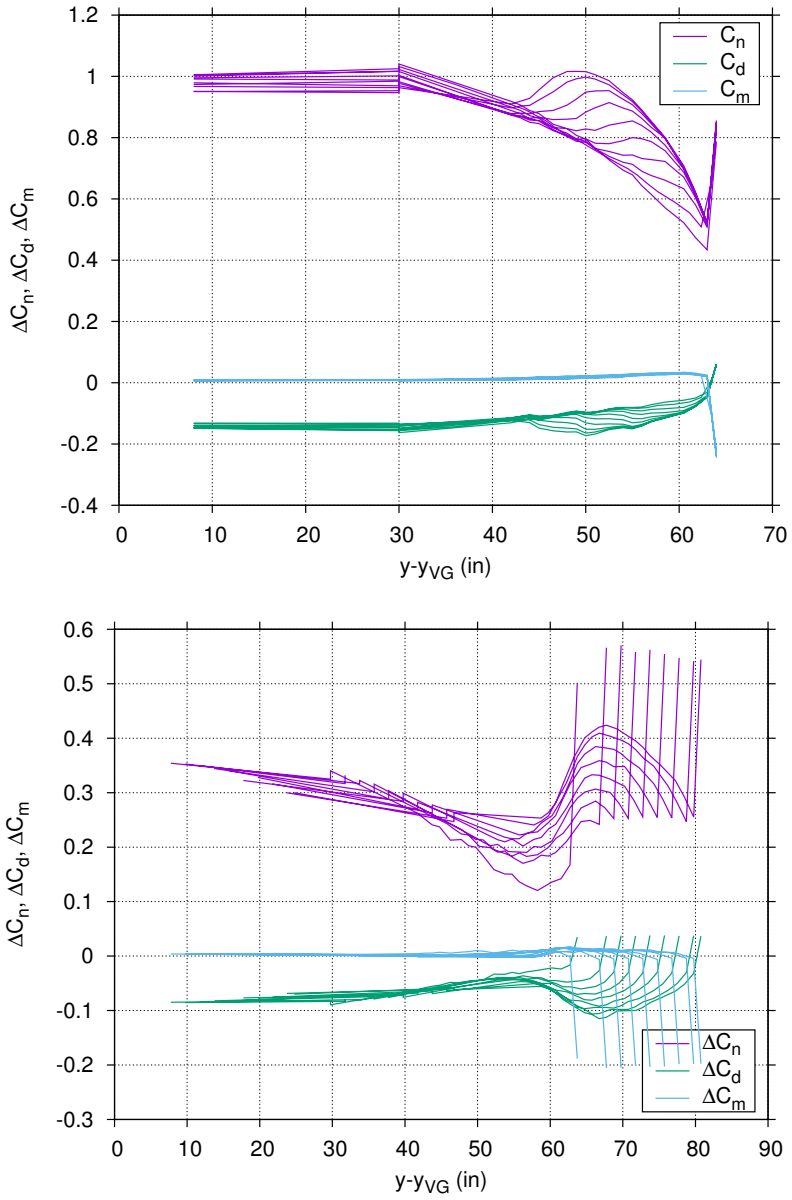

Figure 70. VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — (Data)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.743	10.540	45.870	43.758	42.523	Data
8	68.798	10.547	45.857	43.759	42.523	Data
30	69.306	10.525	45.940	43.758	42.502	Data
30	68.743	10.543	45.957	43.754	42.494	Data
30	68.877	10.495	46.036	43.752	42.512	Data
30	69.491	10.533	46.049	43.753	42.512	Data
30	69.450	10.570	45.954	43.755	42.493	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.630	10.529	46.060	43.747	42.514	Data
30	68.743	10.540	45.870	43.758	42.523	Data
30	68.798	10.547	45.857	43.759	42.523	Data
30	69.068	10.520	46.054	43.747	42.513	Data
30	69.319	10.537	45.936	43.756	42.502	Data
42	69.306	10.525	45.940	43.758	42.502	Data
42	69.319	10.537	45.936	43.756	42.502	Data
43	69.306	10.525	45.940	43.758	42.502	Data
43	69.319	10.537	45.936	43.756	42.502	Data
44	69.306	10.525	45.940	43.758	42.502	Data
44	69.319	10.537	45.936	43.756	42.502	Data
45	69.306	10.525	45.940	43.758	42.502	Data
45	69.319	10.537	45.936	43.756	42.502	Data
46.5	68.743	10.540	45.870	43.758	42.523	Data
46.5	68.798	10.547	45.857	43.759	42.523	Data
48	68.743	10.543	45.957	43.754	42.494	Data
48	69.450	10.570	45.954	43.755	42.493	Data
49	68.743	10.543	45.957	43.754	42.494	Data
49	69.450	10.570	45.954	43.755	42.493	Data
50	68.743	10.543	45.957	43.754	42.494	Data
50	69.450	10.570	45.954	43.755	42.493	Data
51	68.743	10.543	45.957	43.754	42.494	Data
51	69.450	10.570	45.954	43.755	42.493	Data
52.5	68.743	10.540	45.870	43.758	42.523	Data
52.5	68.798	10.547	45.857	43.759	42.523	Data
54	68.877	10.495	46.036	43.752	42.512	Data
54	69.491	10.533	46.049	43.753	42.512	Data
55	68.877	10.495	46.036	43.752	42.512	Data
55	69.491	10.533	46.049	43.753	42.512	Data
56	68.877	10.495	46.036	43.752	42.512	Data
56	69.491	10.533	46.049	43.753	42.512	Data
57	68.877	10.495	46.036	43.752	42.512	Data
57	69.491	10.533	46.049	43.753	42.512	Data
58.5	68.798	10.547	45.857	43.759	42.523	Data
58.5	68.743	10.540	45.870	43.758	42.523	Data
60.5	69.068	10.520	46.054	43.747	42.513	Data
60.5	69.630	10.529	46.060	43.747	42.514	Data
61.75	69.068	10.520	46.054	43.747	42.513	Data
61.75	69.630	10.529	46.060	43.747	42.514	Data
63	69.068	10.520	46.054	43.747	42.513	Data
63	69.630	10.529	46.060	43.747	42.514	Data
64	69.630	10.529	46.060	43.747	42.514	Data
64	69.068	10.520	46.054	43.747	42.513	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 232: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=43.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.860	10.531	45.868	44.751	42.521	Data
8	69.089	10.599	45.867	44.75	42.521	Data
30	69.833	10.601	45.953	44.744	42.493	Data
30	69.089	10.599	45.867	44.75	42.521	Data
30	69.402	10.545	45.938	44.744	42.502	Data
30	69.169	10.512	46.043	44.747	42.513	Data
30	68.471	10.526	46.032	44.747	42.513	Data
30	68.860	10.531	45.868	44.751	42.521	Data
30	69.211	10.514	46.054	44.745	42.514	Data
30	69.527	10.591	45.937	44.745	42.502	Data
30	69.464	10.464	46.055	44.744	42.513	Data
30	67.926	10.572	45.947	44.744	42.493	Data
42	69.527	10.591	45.937	44.745	42.502	Data
42	69.402	10.545	45.938	44.744	42.502	Data
43	69.527	10.591	45.937	44.745	42.502	Data
43	69.402	10.545	45.938	44.744	42.502	Data
44	69.527	10.591	45.937	44.745	42.502	Data
44	69.402	10.545	45.938	44.744	42.502	Data
45	69.527	10.591	45.937	44.745	42.502	Data
45	69.402	10.545	45.938	44.744	42.502	Data
46.5	69.089	10.599	45.867	44.75	42.521	Data
46.5	68.860	10.531	45.868	44.751	42.521	Data
48	69.833	10.601	45.953	44.744	42.493	Data
48	67.926	10.572	45.947	44.744	42.493	Data
49	69.833	10.601	45.953	44.744	42.493	Data
49	67.926	10.572	45.947	44.744	42.493	Data
50	69.833	10.601	45.953	44.744	42.493	Data
50	67.926	10.572	45.947	44.744	42.493	Data
51	69.833	10.601	45.953	44.744	42.493	Data
51	67.926	10.572	45.947	44.744	42.493	Data
52.5	68.860	10.531	45.868	44.751	42.521	Data
52.5	69.089	10.599	45.867	44.75	42.521	Data
54	68.471	10.526	46.032	44.747	42.513	Data
54	69.169	10.512	46.043	44.747	42.513	Data
55	68.471	10.526	46.032	44.747	42.513	Data
55	69.169	10.512	46.043	44.747	42.513	Data
56	68.471	10.526	46.032	44.747	42.513	Data
56	69.169	10.512	46.043	44.747	42.513	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	68.471	10.526	46.032	44.747	42.513	Data
57	69.169	10.512	46.043	44.747	42.513	Data
58.5	68.860	10.531	45.868	44.751	42.521	Data
58.5	69.089	10.599	45.867	44.75	42.521	Data
60.5	69.211	10.514	46.054	44.745	42.514	Data
60.5	69.464	10.464	46.055	44.744	42.513	Data
61.75	69.211	10.514	46.054	44.745	42.514	Data
61.75	69.464	10.464	46.055	44.744	42.513	Data
63	69.211	10.514	46.054	44.745	42.514	Data
63	69.464	10.464	46.055	44.744	42.513	Data
64	69.211	10.514	46.054	44.745	42.514	Data
64	69.464	10.464	46.055	44.744	42.513	Data

Table 233: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=44.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.970	10.507	45.870	46.751	42.519	Data
8	69.040	10.579	45.866	46.751	42.520	Data
30	69.040	10.579	45.866	46.751	42.520	Data
30	67.661	10.532	45.963	46.743	42.493	Data
30	70.100	10.530	45.931	46.742	42.501	Data
30	69.480	10.570	46.040	46.746	42.513	Data
30	70.310	10.541	45.948	46.741	42.501	Data
30	68.547	10.534	46.056	46.744	42.513	Data
30	69.570	10.554	46.039	46.745	42.514	Data
30	68.970	10.507	45.870	46.751	42.519	Data
30	69.024	10.584	46.052	46.742	42.514	Data
30	67.681	10.605	45.962	46.745	42.492	Data
42	70.100	10.530	45.931	46.742	42.501	Data
42	70.310	10.541	45.948	46.741	42.501	Data
43	70.100	10.530	45.931	46.742	42.501	Data
43	70.310	10.541	45.948	46.741	42.501	Data
44	70.100	10.530	45.931	46.742	42.501	Data
44	70.310	10.541	45.948	46.741	42.501	Data
45	70.100	10.530	45.931	46.742	42.501	Data
45	70.310	10.541	45.948	46.741	42.501	Data
46.5	69.040	10.579	45.866	46.751	42.520	Data
46.5	68.970	10.507	45.870	46.751	42.519	Data
48	67.661	10.532	45.963	46.743	42.493	Data
48	67.681	10.605	45.962	46.745	42.492	Data
49	67.661	10.532	45.963	46.743	42.493	Data
49	67.681	10.605	45.962	46.745	42.492	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	67.661	10.532	45.963	46.743	42.493	Data
50	67.681	10.605	45.962	46.745	42.492	Data
51	67.661	10.532	45.963	46.743	42.493	Data
51	67.681	10.605	45.962	46.745	42.492	Data
52.5	69.040	10.579	45.866	46.751	42.520	Data
52.5	68.970	10.507	45.870	46.751	42.519	Data
54	69.570	10.554	46.039	46.745	42.514	Data
54	69.480	10.570	46.040	46.746	42.513	Data
55	69.570	10.554	46.039	46.745	42.514	Data
55	69.480	10.570	46.040	46.746	42.513	Data
56	69.570	10.554	46.039	46.745	42.514	Data
56	69.480	10.570	46.040	46.746	42.513	Data
57	69.570	10.554	46.039	46.745	42.514	Data
57	69.480	10.570	46.040	46.746	42.513	Data
58.5	69.040	10.579	45.866	46.751	42.520	Data
58.5	68.970	10.507	45.870	46.751	42.519	Data
60.5	69.024	10.584	46.052	46.742	42.514	Data
60.5	68.547	10.534	46.056	46.744	42.513	Data
61.75	69.024	10.584	46.052	46.742	42.514	Data
61.75	68.547	10.534	46.056	46.744	42.513	Data
63	69.024	10.584	46.052	46.742	42.514	Data
63	68.547	10.534	46.056	46.744	42.513	Data
64	69.024	10.584	46.052	46.742	42.514	Data
64	68.547	10.534	46.056	46.744	42.513	Data

Table 234: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=46.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.956	10.602	45.875	48.752	42.516	Data
8	69.010	10.570	45.881	48.752	42.518	Data
30	70.296	10.585	45.949	48.754	42.501	Data
30	69.620	10.530	46.040	48.757	42.515	Data
30	68.380	10.552	45.957	48.757	42.494	Data
30	68.956	10.602	45.875	48.752	42.516	Data
30	70.810	10.544	45.956	48.753	42.501	Data
30	70.141	10.502	46.041	48.756	42.515	Data
30	69.059	10.554	46.053	48.753	42.513	Data
30	69.127	10.558	46.057	48.752	42.512	Data
30	67.789	10.559	45.960	48.759	42.493	Data
30	69.010	10.570	45.881	48.752	42.518	Data
42	70.296	10.585	45.949	48.754	42.501	Data
42	70.810	10.544	45.956	48.753	42.501	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	70.296	10.585	45.949	48.754	42.501	Data
43	70.810	10.544	45.956	48.753	42.501	Data
44	70.296	10.585	45.949	48.754	42.501	Data
44	70.810	10.544	45.956	48.753	42.501	Data
45	70.296	10.585	45.949	48.754	42.501	Data
45	70.810	10.544	45.956	48.753	42.501	Data
46.5	68.956	10.602	45.875	48.752	42.516	Data
46.5	69.010	10.570	45.881	48.752	42.518	Data
48	68.380	10.552	45.957	48.757	42.494	Data
48	67.789	10.559	45.960	48.759	42.493	Data
49	68.380	10.552	45.957	48.757	42.494	Data
49	67.789	10.559	45.960	48.759	42.493	Data
50	67.789	10.559	45.960	48.759	42.493	Data
50	68.380	10.552	45.957	48.757	42.494	Data
51	67.789	10.559	45.960	48.759	42.493	Data
51	68.380	10.552	45.957	48.757	42.494	Data
52.5	68.956	10.602	45.875	48.752	42.516	Data
52.5	69.010	10.570	45.881	48.752	42.518	Data
54	70.141	10.502	46.041	48.756	42.515	Data
54	69.620	10.530	46.040	48.757	42.515	Data
55	70.141	10.502	46.041	48.756	42.515	Data
55	69.620	10.530	46.040	48.757	42.515	Data
56	70.141	10.502	46.041	48.756	42.515	Data
56	69.620	10.530	46.040	48.757	42.515	Data
57	70.141	10.502	46.041	48.756	42.515	Data
57	69.620	10.530	46.040	48.757	42.515	Data
58.5	68.956	10.602	45.875	48.752	42.516	Data
58.5	69.010	10.570	45.881	48.752	42.518	Data
60.5	69.059	10.554	46.053	48.753	42.513	Data
60.5	69.127	10.558	46.057	48.752	42.512	Data
61.75	69.059	10.554	46.053	48.753	42.513	Data
61.75	69.127	10.558	46.057	48.752	42.512	Data
63	69.127	10.558	46.057	48.752	42.512	Data
63	69.059	10.554	46.053	48.753	42.513	Data
64	69.127	10.558	46.057	48.752	42.512	Data
64	69.059	10.554	46.053	48.753	42.513	Data

Table 235: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=48.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.612	10.593	45.870	50.746	42.515	Data
8	69.062	10.623	45.874	50.747	42.516	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.642	10.600	45.958	50.752	42.493	Data
30	69.612	10.593	45.870	50.746	42.515	Data
30	68.535	10.526	45.959	50.751	42.494	Data
30	70.527	10.543	46.034	50.757	42.516	Data
30	70.959	10.601	45.947	50.751	42.502	Data
30	69.488	10.549	46.056	50.754	42.513	Data
30	70.375	10.543	46.046	50.755	42.516	Data
30	69.978	10.584	45.942	50.751	42.502	Data
30	69.515	10.468	46.055	50.753	42.513	Data
30	69.062	10.623	45.874	50.747	42.516	Data
42	70.959	10.601	45.947	50.751	42.502	Data
42	69.978	10.584	45.942	50.751	42.502	Data
43	70.959	10.601	45.947	50.751	42.502	Data
43	69.978	10.584	45.942	50.751	42.502	Data
44	70.959	10.601	45.947	50.751	42.502	Data
44	69.978	10.584	45.942	50.751	42.502	Data
45	70.959	10.601	45.947	50.751	42.502	Data
45	69.978	10.584	45.942	50.751	42.502	Data
46.5	69.612	10.593	45.870	50.746	42.515	Data
46.5	69.062	10.623	45.874	50.747	42.516	Data
48	68.535	10.526	45.959	50.751	42.494	Data
48	68.642	10.600	45.958	50.752	42.493	Data
49	68.535	10.526	45.959	50.751	42.494	Data
49	68.642	10.600	45.958	50.752	42.493	Data
50	68.535	10.526	45.959	50.751	42.494	Data
50	68.642	10.600	45.958	50.752	42.493	Data
51	68.535	10.526	45.959	50.751	42.494	Data
51	68.642	10.600	45.958	50.752	42.493	Data
52.5	69.612	10.593	45.870	50.746	42.515	Data
52.5	69.062	10.623	45.874	50.747	42.516	Data
54	70.375	10.543	46.046	50.755	42.516	Data
54	70.527	10.543	46.034	50.757	42.516	Data
55	70.375	10.543	46.046	50.755	42.516	Data
55	70.527	10.543	46.034	50.757	42.516	Data
56	70.375	10.543	46.046	50.755	42.516	Data
56	70.527	10.543	46.034	50.757	42.516	Data
57	70.375	10.543	46.046	50.755	42.516	Data
57	70.527	10.543	46.034	50.757	42.516	Data
58.5	69.612	10.593	45.870	50.746	42.515	Data
58.5	69.062	10.623	45.874	50.747	42.516	Data
60.5	69.515	10.468	46.055	50.753	42.513	Data
60.5	69.488	10.549	46.056	50.754	42.513	Data
61.75	69.515	10.468	46.055	50.753	42.513	Data
61.75	69.488	10.549	46.056	50.754	42.513	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	69.515	10.468	46.055	50.753	42.513	Data
63	69.488	10.549	46.056	50.754	42.513	Data
64	69.515	10.468	46.055	50.753	42.513	Data
64	69.488	10.549	46.056	50.754	42.513	Data

Table 236: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=50.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.029	10.498	45.881	52.753	42.514	Data
8	69.589	10.559	45.867	52.754	42.513	Data
30	68.998	10.552	46.065	52.745	42.513	Data
30	69.589	10.559	45.867	52.754	42.513	Data
30	69.548	10.518	46.063	52.745	42.513	Data
30	68.772	10.559	45.958	52.741	42.494	Data
30	70.923	10.571	45.944	52.746	42.502	Data
30	68.849	10.563	45.954	52.741	42.495	Data
30	70.029	10.498	45.881	52.753	42.514	Data
30	71.004	10.604	45.942	52.747	42.501	Data
30	70.302	10.511	46.037	52.75	42.517	Data
30	70.434	10.495	46.035	52.75	42.517	Data
42	70.923	10.571	45.944	52.746	42.502	Data
42	71.004	10.604	45.942	52.747	42.501	Data
43	70.923	10.571	45.944	52.746	42.502	Data
43	71.004	10.604	45.942	52.747	42.501	Data
44	70.923	10.571	45.944	52.746	42.502	Data
44	71.004	10.604	45.942	52.747	42.501	Data
45	70.923	10.571	45.944	52.746	42.502	Data
45	71.004	10.604	45.942	52.747	42.501	Data
46.5	69.589	10.559	45.867	52.754	42.513	Data
46.5	70.029	10.498	45.881	52.753	42.514	Data
48	68.772	10.559	45.958	52.741	42.494	Data
48	68.849	10.563	45.954	52.741	42.495	Data
49	68.772	10.559	45.958	52.741	42.494	Data
49	68.849	10.563	45.954	52.741	42.495	Data
50	68.772	10.559	45.958	52.741	42.494	Data
50	68.849	10.563	45.954	52.741	42.495	Data
51	68.772	10.559	45.958	52.741	42.494	Data
51	68.849	10.563	45.954	52.741	42.495	Data
52.5	70.029	10.498	45.881	52.753	42.514	Data
52.5	69.589	10.559	45.867	52.754	42.513	Data
54	70.434	10.495	46.035	52.75	42.517	Data
54	70.302	10.511	46.037	52.75	42.517	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	70.302	10.511	46.037	52.75	42.517	Data
55	70.434	10.495	46.035	52.75	42.517	Data
56	70.302	10.511	46.037	52.75	42.517	Data
56	70.434	10.495	46.035	52.75	42.517	Data
57	70.302	10.511	46.037	52.75	42.517	Data
57	70.434	10.495	46.035	52.75	42.517	Data
58.5	70.029	10.498	45.881	52.753	42.514	Data
58.5	69.589	10.559	45.867	52.754	42.513	Data
60.5	69.548	10.518	46.063	52.745	42.513	Data
60.5	68.998	10.552	46.065	52.745	42.513	Data
61.75	69.548	10.518	46.063	52.745	42.513	Data
61.75	68.998	10.552	46.065	52.745	42.513	Data
63	69.548	10.518	46.063	52.745	42.513	Data
63	68.998	10.552	46.065	52.745	42.513	Data
64	68.998	10.552	46.065	52.745	42.513	Data
64	69.548	10.518	46.063	52.745	42.513	Data

Table 237: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=52.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.530	10.556	45.880	54.748	42.513	Data
8	70.073	10.606	45.873	54.747	42.512	Data
30	69.763	10.556	45.944	54.752	42.495	Data
30	68.944	10.482	46.047	54.742	42.513	Data
30	70.073	10.606	45.873	54.747	42.512	Data
30	69.530	10.556	45.880	54.748	42.513	Data
30	70.238	10.559	46.041	54.744	42.518	Data
30	70.875	10.545	45.962	54.743	42.502	Data
30	69.148	10.559	45.948	54.752	42.495	Data
30	70.108	10.512	46.033	54.743	42.518	Data
30	71.627	10.567	45.954	54.741	42.502	Data
30	69.200	10.532	46.058	54.742	42.513	Data
42	70.875	10.545	45.962	54.743	42.502	Data
42	71.627	10.567	45.954	54.741	42.502	Data
43	70.875	10.545	45.962	54.743	42.502	Data
43	71.627	10.567	45.954	54.741	42.502	Data
44	71.627	10.567	45.954	54.741	42.502	Data
44	70.875	10.545	45.962	54.743	42.502	Data
45	71.627	10.567	45.954	54.741	42.502	Data
45	70.875	10.545	45.962	54.743	42.502	Data
46.5	69.530	10.556	45.880	54.748	42.513	Data
46.5	70.073	10.606	45.873	54.747	42.512	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	69.763	10.556	45.944	54.752	42.495	Data
48	69.148	10.559	45.948	54.752	42.495	Data
49	69.763	10.556	45.944	54.752	42.495	Data
49	69.148	10.559	45.948	54.752	42.495	Data
50	69.763	10.556	45.944	54.752	42.495	Data
50	69.148	10.559	45.948	54.752	42.495	Data
51	69.148	10.559	45.948	54.752	42.495	Data
51	69.763	10.556	45.944	54.752	42.495	Data
52.5	69.530	10.556	45.880	54.748	42.513	Data
52.5	70.073	10.606	45.873	54.747	42.512	Data
54	70.238	10.559	46.041	54.744	42.518	Data
54	70.108	10.512	46.033	54.743	42.518	Data
55	70.238	10.559	46.041	54.744	42.518	Data
55	70.108	10.512	46.033	54.743	42.518	Data
56	70.238	10.559	46.041	54.744	42.518	Data
56	70.108	10.512	46.033	54.743	42.518	Data
57	70.108	10.512	46.033	54.743	42.518	Data
57	70.238	10.559	46.041	54.744	42.518	Data
58.5	69.530	10.556	45.880	54.748	42.513	Data
58.5	70.073	10.606	45.873	54.747	42.512	Data
60.5	69.200	10.532	46.058	54.742	42.513	Data
60.5	68.944	10.482	46.047	54.742	42.513	Data
61.75	69.200	10.532	46.058	54.742	42.513	Data
61.75	68.944	10.482	46.047	54.742	42.513	Data
63	69.200	10.532	46.058	54.742	42.513	Data
63	68.944	10.482	46.047	54.742	42.513	Data
64	68.944	10.482	46.047	54.742	42.513	Data
64	69.200	10.532	46.058	54.742	42.513	Data

Table 238: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=54.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.498	10.508	45.883	56.748	42.510	Data
8	70.624	10.616	45.879	56.746	42.511	Data
30	70.624	10.616	45.879	56.746	42.511	Data
30	70.837	10.541	46.040	56.751	42.519	Data
30	70.498	10.508	45.883	56.748	42.510	Data
30	70.086	10.466	46.035	56.751	42.518	Data
30	69.971	10.545	46.054	56.751	42.515	Data
30	69.549	10.562	45.952	56.754	42.496	Data
30	72.142	10.505	45.958	56.746	42.501	Data
30	72.055	10.584	45.956	56.745	42.501	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.970	10.570	45.950	56.754	42.496	Data
30	69.260	10.499	46.059	56.751	42.514	Data
42	72.142	10.505	45.958	56.746	42.501	Data
42	72.055	10.584	45.956	56.745	42.501	Data
43	72.142	10.505	45.958	56.746	42.501	Data
43	72.055	10.584	45.956	56.745	42.501	Data
44	72.142	10.505	45.958	56.746	42.501	Data
44	72.055	10.584	45.956	56.745	42.501	Data
45	72.142	10.505	45.958	56.746	42.501	Data
45	72.055	10.584	45.956	56.745	42.501	Data
46.5	70.624	10.616	45.879	56.746	42.511	Data
46.5	70.498	10.508	45.883	56.748	42.510	Data
48	69.970	10.570	45.950	56.754	42.496	Data
48	69.549	10.562	45.952	56.754	42.496	Data
49	69.970	10.570	45.950	56.754	42.496	Data
49	69.549	10.562	45.952	56.754	42.496	Data
50	69.970	10.570	45.950	56.754	42.496	Data
50	69.549	10.562	45.952	56.754	42.496	Data
51	69.970	10.570	45.950	56.754	42.496	Data
51	69.549	10.562	45.952	56.754	42.496	Data
52.5	70.498	10.508	45.883	56.748	42.510	Data
52.5	70.624	10.616	45.879	56.746	42.511	Data
54	70.837	10.541	46.040	56.751	42.519	Data
54	70.086	10.466	46.035	56.751	42.518	Data
55	70.837	10.541	46.040	56.751	42.519	Data
55	70.086	10.466	46.035	56.751	42.518	Data
56	70.837	10.541	46.040	56.751	42.519	Data
56	70.086	10.466	46.035	56.751	42.518	Data
57	70.837	10.541	46.040	56.751	42.519	Data
57	70.086	10.466	46.035	56.751	42.518	Data
58.5	70.624	10.616	45.879	56.746	42.511	Data
58.5	70.498	10.508	45.883	56.748	42.510	Data
60.5	69.260	10.499	46.059	56.751	42.514	Data
60.5	69.971	10.545	46.054	56.751	42.515	Data
61.75	69.260	10.499	46.059	56.751	42.514	Data
61.75	69.971	10.545	46.054	56.751	42.515	Data
63	69.260	10.499	46.059	56.751	42.514	Data
63	69.971	10.545	46.054	56.751	42.515	Data
64	69.260	10.499	46.059	56.751	42.514	Data
64	69.971	10.545	46.054	56.751	42.515	Data

Table 239: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=56.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.843	10.533	45.867	58.751	42.508	Data
8	70.358	10.609	45.873	58.752	42.509	Data
30	70.156	10.551	45.946	58.749	42.498	Data
30	70.415	10.506	46.061	58.74	42.516	Data
30	70.358	10.609	45.873	58.752	42.509	Data
30	70.843	10.533	45.867	58.751	42.508	Data
30	70.710	10.485	46.035	58.758	42.519	Data
30	71.351	10.444	46.036	58.758	42.518	Data
30	69.688	10.682	45.947	58.749	42.498	Data
30	69.818	10.514	46.061	58.739	42.516	Data
30	72.334	10.515	45.954	58.751	42.501	Data
42	72.334	10.515	45.954	58.751	42.501	Data
43	72.334	10.515	45.954	58.751	42.501	Data
44	72.334	10.515	45.954	58.751	42.501	Data
45	72.334	10.515	45.954	58.751	42.501	Data
46.5	70.358	10.609	45.873	58.752	42.509	Data
46.5	70.843	10.533	45.867	58.751	42.508	Data
48	70.156	10.551	45.946	58.749	42.498	Data
48	69.688	10.682	45.947	58.749	42.498	Data
49	70.156	10.551	45.946	58.749	42.498	Data
49	69.688	10.682	45.947	58.749	42.498	Data
50	70.156	10.551	45.946	58.749	42.498	Data
50	69.688	10.682	45.947	58.749	42.498	Data
51	70.156	10.551	45.946	58.749	42.498	Data
51	69.688	10.682	45.947	58.749	42.498	Data
52.5	70.358	10.609	45.873	58.752	42.509	Data
52.5	70.843	10.533	45.867	58.751	42.508	Data
54	70.710	10.485	46.035	58.758	42.519	Data
54	71.351	10.444	46.036	58.758	42.518	Data
55	70.710	10.485	46.035	58.758	42.519	Data
55	71.351	10.444	46.036	58.758	42.518	Data
56	70.710	10.485	46.035	58.758	42.519	Data
56	71.351	10.444	46.036	58.758	42.518	Data
57	71.351	10.444	46.036	58.758	42.518	Data
57	70.710	10.485	46.035	58.758	42.519	Data
58.5	70.358	10.609	45.873	58.752	42.509	Data
58.5	70.843	10.533	45.867	58.751	42.508	Data
60.5	70.415	10.506	46.061	58.74	42.516	Data
60.5	69.818	10.514	46.061	58.739	42.516	Data
61.75	70.415	10.506	46.061	58.74	42.516	Data
61.75	69.818	10.514	46.061	58.739	42.516	Data
63	70.415	10.506	46.061	58.74	42.516	Data
63	69.818	10.514	46.061	58.739	42.516	Data
64	70.415	10.506	46.061	58.74	42.516	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	69.818	10.514	46.061	58.739	42.516	Data

Table 240: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=58.5 (in)

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.040	10.517	45.874	60.754	42.508	Data
8	70.919	10.496	45.869	60.755	42.507	Data
30	70.763	10.610	45.949	60.748	42.501	Data
30	70.497	10.584	45.950	60.749	42.503	Data
30	71.040	10.517	45.874	60.754	42.508	Data
30	70.128	10.504	46.043	60.763	42.518	Data
30	70.975	10.491	46.060	60.764	42.517	Data
30	70.208	10.533	46.051	60.766	42.517	Data
30	70.919	10.496	45.869	60.755	42.507	Data
30	69.726	10.562	45.949	60.753	42.501	Data
30	70.033	10.547	45.950	60.751	42.501	Data
30	70.275	10.544	46.035	60.766	42.519	Data
42	70.033	10.547	45.950	60.751	42.501	Data
42	69.726	10.562	45.949	60.753	42.501	Data
43	70.033	10.547	45.950	60.751	42.501	Data
43	69.726	10.562	45.949	60.753	42.501	Data
44	70.033	10.547	45.950	60.751	42.501	Data
44	69.726	10.562	45.949	60.753	42.501	Data
45	70.033	10.547	45.950	60.751	42.501	Data
45	69.726	10.562	45.949	60.753	42.501	Data
46.5	71.040	10.517	45.874	60.754	42.508	Data
46.5	70.919	10.496	45.869	60.755	42.507	Data
48	70.763	10.610	45.949	60.748	42.501	Data
48	70.497	10.584	45.950	60.749	42.503	Data
49	70.763	10.610	45.949	60.748	42.501	Data
49	70.497	10.584	45.950	60.749	42.503	Data
50	70.763	10.610	45.949	60.748	42.501	Data
50	70.497	10.584	45.950	60.749	42.503	Data
51	70.763	10.610	45.949	60.748	42.501	Data
51	70.497	10.584	45.950	60.749	42.503	Data
52.5	71.040	10.517	45.874	60.754	42.508	Data
52.5	70.919	10.496	45.869	60.755	42.507	Data
54	70.128	10.504	46.043	60.763	42.518	Data
54	70.275	10.544	46.035	60.766	42.519	Data
55	70.128	10.504	46.043	60.763	42.518	Data
55	70.275	10.544	46.035	60.766	42.519	Data
56	70.128	10.504	46.043	60.763	42.518	Data

VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	70.275	10.544	46.035	60.766	42.519	Data
57	70.275	10.544	46.035	60.766	42.519	Data
57	70.128	10.504	46.043	60.763	42.518	Data
58.5	70.919	10.496	45.869	60.755	42.507	Data
58.5	71.040	10.517	45.874	60.754	42.508	Data
60.5	70.208	10.533	46.051	60.766	42.517	Data
60.5	70.975	10.491	46.060	60.764	42.517	Data
61.75	70.208	10.533	46.051	60.766	42.517	Data
61.75	70.975	10.491	46.060	60.764	42.517	Data
63	70.208	10.533	46.051	60.766	42.517	Data
63	70.975	10.491	46.060	60.764	42.517	Data
64	70.208	10.533	46.051	60.766	42.517	Data
64	70.975	10.491	46.060	60.764	42.517	Data

Table 241: VG horizontal sweep: q=70 RO-tip VG 42.5 (in) VG AoA 8 +Wing11 — VG at span y=60.5 (in)

D.18. Horizontal VG vortex sweep at height z=47, q=70, α_{VG}=-4, α_W=7, RO-tip

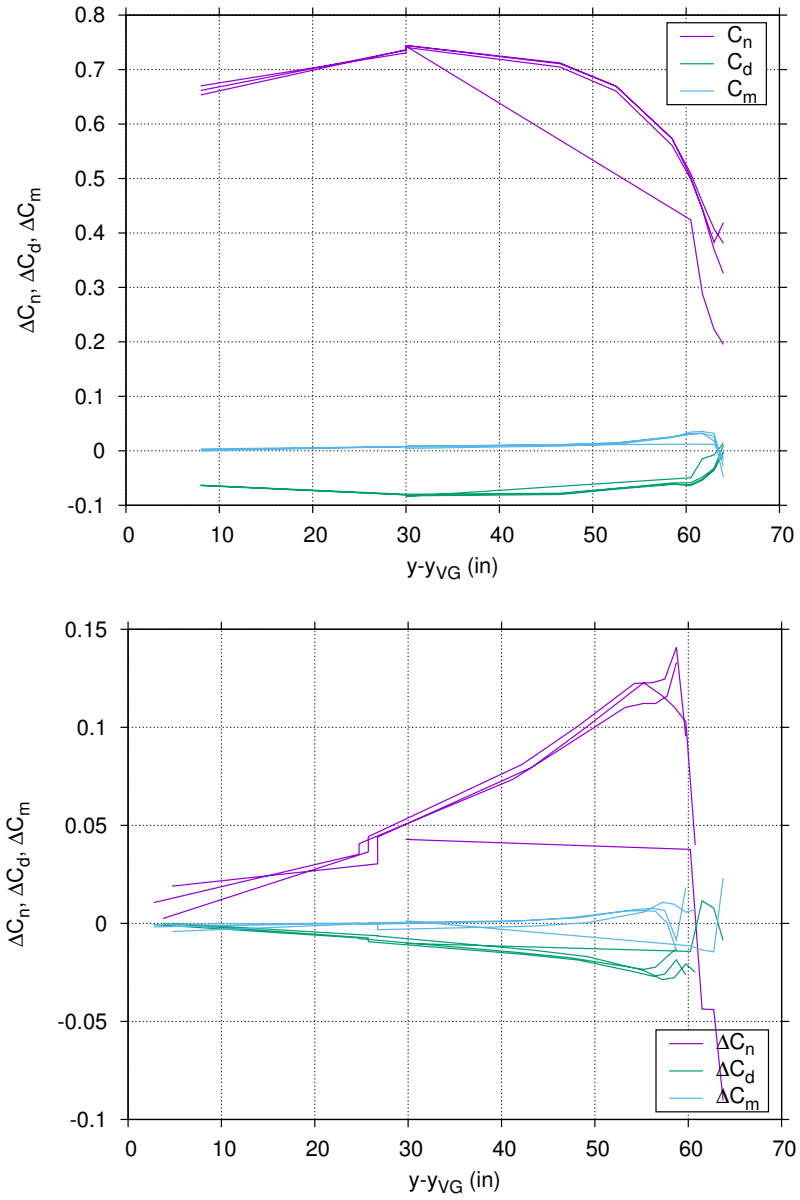

Figure 71. VG horizontal sweep: q=70 RO-tip VG 47 (in) VG AoA -4 — (Data)

VG horizontal sweep: q=70 RO-tip VG 47 (in) VG AoA -4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.763	6.499	57.010	60.768	46.982	Data
30	69.832	6.462	57.011	60.768	46.982	Data
60.5	69.763	6.499	57.010	60.768	46.982	Data
60.5	69.832	6.462	57.011	60.768	46.982	Data
61.75	69.763	6.499	57.010	60.768	46.982	Data
61.75	69.832	6.462	57.011	60.768	46.982	Data
63	69.763	6.499	57.010	60.768	46.982	Data

VG horizontal sweep: q=70 RO-tip VG 47 (in) VG AoA -4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	69.832	6.462	57.011	60.768	46.982	Data
64	69.763	6.499	57.010	60.768	46.982	Data
64	69.832	6.462	57.011	60.768	46.982	Data

Table 242: VG horizontal sweep: q=70 RO-tip VG 47 (in) VG AoA -4 — VG at span y=60.5 (in)

VG horizontal sweep: q=70 RO-tip VG 47 (in) VG AoA -4 — VG at span y=63.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.814	6.566	57.033	63.778	46.970	Data
8	70.730	6.491	57.030	63.779	46.971	Data
30	69.426	6.468	57.016	63.759	46.995	Data
30	69.573	6.564	57.022	63.76	46.995	Data
30	70.730	6.491	57.030	63.779	46.971	Data
30	70.814	6.566	57.033	63.778	46.970	Data
46.5	70.814	6.566	57.033	63.778	46.970	Data
46.5	70.730	6.491	57.030	63.779	46.971	Data
52.5	70.730	6.491	57.030	63.779	46.971	Data
52.5	70.814	6.566	57.033	63.778	46.970	Data
58.5	70.730	6.491	57.030	63.779	46.971	Data
58.5	70.814	6.566	57.033	63.778	46.970	Data
60.5	69.426	6.468	57.016	63.759	46.995	Data
60.5	69.573	6.564	57.022	63.76	46.995	Data
61.75	69.426	6.468	57.016	63.759	46.995	Data
61.75	69.573	6.564	57.022	63.76	46.995	Data
63	69.426	6.468	57.016	63.759	46.995	Data
63	69.573	6.564	57.022	63.76	46.995	Data
64	69.426	6.468	57.016	63.759	46.995	Data
64	69.573	6.564	57.022	63.76	46.995	Data

Table 243: VG horizontal sweep: q=70 RO-tip VG 47 (in) VG AoA -4 — VG at span y=63.5 (in)

VG horizontal sweep: q=70 RO-tip VG 47 (in) VG AoA -4 — VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.073	6.545	57.035	64.77	46.998	Data
8	70.045	6.473	57.031	64.769	46.998	Data
30	69.754	6.518	57.014	64.767	46.980	Data
30	69.519	6.505	57.019	64.768	46.980	Data
30	70.073	6.545	57.035	64.77	46.998	Data
30	70.045	6.473	57.031	64.769	46.998	Data
46.5	70.045	6.473	57.031	64.769	46.998	Data
46.5	70.073	6.545	57.035	64.77	46.998	Data
52.5	70.045	6.473	57.031	64.769	46.998	Data

VG horizontal sweep: q=70 RO-tip VG 47 (in) VG AoA -4 — VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
52.5	70.073	6.545	57.035	64.77	46.998	Data
58.5	70.045	6.473	57.031	64.769	46.998	Data
58.5	70.073	6.545	57.035	64.77	46.998	Data
60.5	69.519	6.505	57.019	64.768	46.980	Data
60.5	69.754	6.518	57.014	64.767	46.980	Data
61.75	69.519	6.505	57.019	64.768	46.980	Data
61.75	69.754	6.518	57.014	64.767	46.980	Data
63	69.519	6.505	57.019	64.768	46.980	Data
63	69.754	6.518	57.014	64.767	46.980	Data
64	69.519	6.505	57.019	64.768	46.980	Data
64	69.754	6.518	57.014	64.767	46.980	Data

Table 244: VG horizontal sweep: q=70 RO-tip VG 47 (in) VG AoA -4 — VG at span y=64.5 (in)

VG horizontal sweep: q=70 RO-tip VG 47 (in) VG AoA -4 — VG at span y=65.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.398	6.482	57.032	65.759	46.999	Data
8	69.548	6.524	57.036	65.759	47.000	Data
30	70.398	6.482	57.032	65.759	46.999	Data
30	69.479	6.564	57.018	65.76	46.993	Data
30	69.429	6.514	57.022	65.76	46.993	Data
30	69.548	6.524	57.036	65.759	47.000	Data
46.5	70.398	6.482	57.032	65.759	46.999	Data
46.5	69.548	6.524	57.036	65.759	47.000	Data
52.5	70.398	6.482	57.032	65.759	46.999	Data
52.5	69.548	6.524	57.036	65.759	47.000	Data
58.5	69.548	6.524	57.036	65.759	47.000	Data
58.5	70.398	6.482	57.032	65.759	46.999	Data
60.5	69.479	6.564	57.018	65.76	46.993	Data
60.5	69.429	6.514	57.022	65.76	46.993	Data
61.75	69.479	6.564	57.018	65.76	46.993	Data
61.75	69.429	6.514	57.022	65.76	46.993	Data
63	69.479	6.564	57.018	65.76	46.993	Data
63	69.429	6.514	57.022	65.76	46.993	Data
64	69.479	6.564	57.018	65.76	46.993	Data
64	69.429	6.514	57.022	65.76	46.993	Data

Table 245: VG horizontal sweep: q=70 RO-tip VG 47 (in) VG AoA -4 — VG at span y=65.5 (in)

D.19. Horizontal VG vortex sweep at height z=46, q=70, α_{VG}=-4, α_W=7, RO-tip

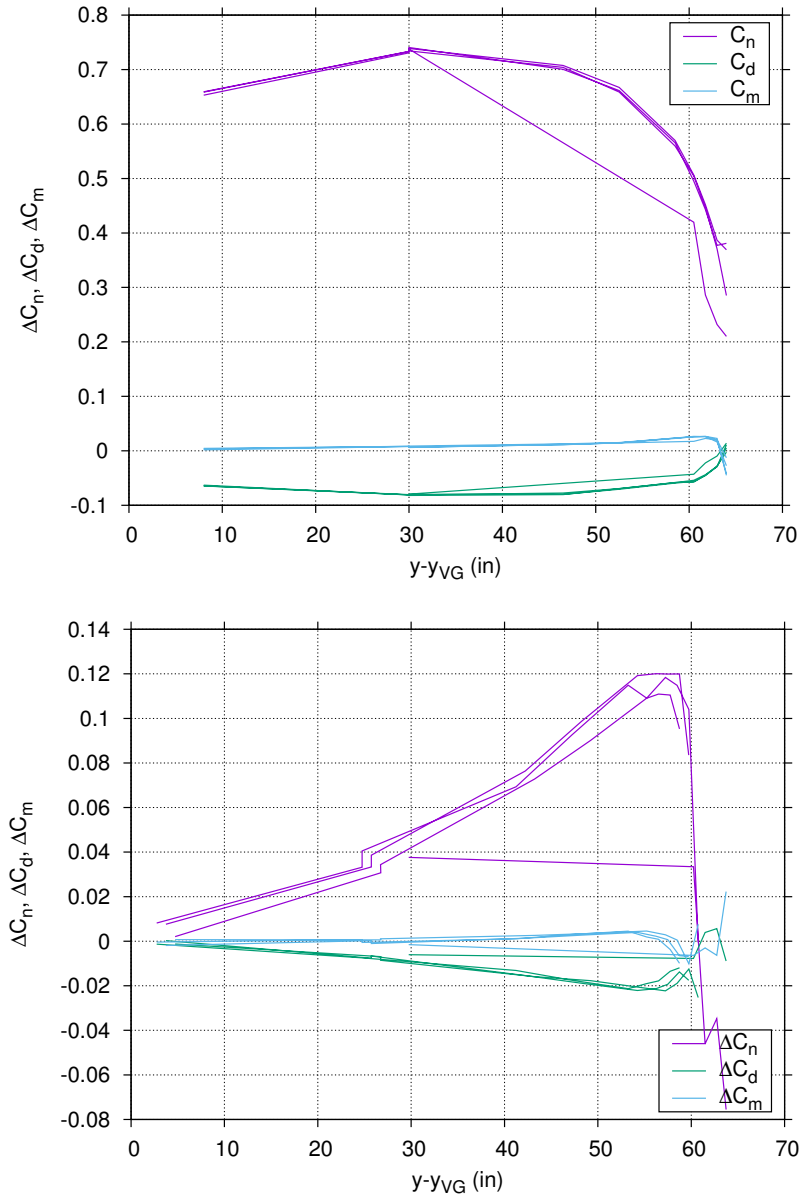

Figure 72. VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA -4 — (Data)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA -4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.576	6.539	57.006	60.766	46.002	Data
30	69.999	6.536	57.012	60.767	46.002	Data
60.5	69.576	6.539	57.006	60.766	46.002	Data
60.5	69.999	6.536	57.012	60.767	46.002	Data
61.75	69.576	6.539	57.006	60.766	46.002	Data
61.75	69.999	6.536	57.012	60.767	46.002	Data
63	69.999	6.536	57.012	60.767	46.002	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA -4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	69.576	6.539	57.006	60.766	46.002	Data
64	69.999	6.536	57.012	60.767	46.002	Data
64	69.576	6.539	57.006	60.766	46.002	Data

Table 246: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA -4 — VG at span y=60.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA -4 — VG at span y=63.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.533	6.507	57.034	63.779	45.989	Data
8	70.379	6.556	57.030	63.778	45.989	Data
30	69.053	6.555	57.019	63.758	45.994	Data
30	69.675	6.501	57.013	63.76	45.994	Data
30	70.533	6.507	57.034	63.779	45.989	Data
30	70.379	6.556	57.030	63.778	45.989	Data
46.5	70.379	6.556	57.030	63.778	45.989	Data
46.5	70.533	6.507	57.034	63.779	45.989	Data
52.5	70.379	6.556	57.030	63.778	45.989	Data
52.5	70.533	6.507	57.034	63.779	45.989	Data
58.5	70.379	6.556	57.030	63.778	45.989	Data
58.5	70.533	6.507	57.034	63.779	45.989	Data
60.5	69.675	6.501	57.013	63.76	45.994	Data
60.5	69.053	6.555	57.019	63.758	45.994	Data
61.75	69.675	6.501	57.013	63.76	45.994	Data
61.75	69.053	6.555	57.019	63.758	45.994	Data
63	69.675	6.501	57.013	63.76	45.994	Data
63	69.053	6.555	57.019	63.758	45.994	Data
64	69.675	6.501	57.013	63.76	45.994	Data
64	69.053	6.555	57.019	63.758	45.994	Data

Table 247: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA -4 — VG at span y=63.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA -4 — VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.676	6.500	57.035	64.767	46.004	Data
8	70.080	6.537	57.029	64.768	46.004	Data
30	70.676	6.500	57.035	64.767	46.004	Data
30	69.278	6.542	57.012	64.769	46.002	Data
30	70.080	6.537	57.029	64.768	46.004	Data
30	69.423	6.566	57.008	64.767	46.001	Data
46.5	70.676	6.500	57.035	64.767	46.004	Data
46.5	70.080	6.537	57.029	64.768	46.004	Data
52.5	70.676	6.500	57.035	64.767	46.004	Data

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA -4 — VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
52.5	70.080	6.537	57.029	64.768	46.004	Data
58.5	70.676	6.500	57.035	64.767	46.004	Data
58.5	70.080	6.537	57.029	64.768	46.004	Data
60.5	69.278	6.542	57.012	64.769	46.002	Data
60.5	69.423	6.566	57.008	64.767	46.001	Data
61.75	69.278	6.542	57.012	64.769	46.002	Data
61.75	69.423	6.566	57.008	64.767	46.001	Data
63	69.278	6.542	57.012	64.769	46.002	Data
63	69.423	6.566	57.008	64.767	46.001	Data
64	69.278	6.542	57.012	64.769	46.002	Data
64	69.423	6.566	57.008	64.767	46.001	Data

Table 248: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA -4 — VG at span y=64.5 (in)

VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA -4 — VG at span y=65.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.526	6.527	57.033	65.76	46.000	Data
8	69.679	6.501	57.032	65.758	46.000	Data
30	70.526	6.527	57.033	65.76	46.000	Data
30	69.719	6.495	57.035	65.76	45.988	Data
30	69.440	6.546	57.028	65.759	45.988	Data
30	69.679	6.501	57.032	65.758	46.000	Data
46.5	70.526	6.527	57.033	65.76	46.000	Data
46.5	69.679	6.501	57.032	65.758	46.000	Data
52.5	70.526	6.527	57.033	65.76	46.000	Data
52.5	69.679	6.501	57.032	65.758	46.000	Data
58.5	70.526	6.527	57.033	65.76	46.000	Data
58.5	69.679	6.501	57.032	65.758	46.000	Data
60.5	69.719	6.495	57.035	65.76	45.988	Data
60.5	69.440	6.546	57.028	65.759	45.988	Data
61.75	69.719	6.495	57.035	65.76	45.988	Data
61.75	69.440	6.546	57.028	65.759	45.988	Data
63	69.719	6.495	57.035	65.76	45.988	Data
63	69.440	6.546	57.028	65.759	45.988	Data
64	69.440	6.546	57.028	65.759	45.988	Data
64	69.719	6.495	57.035	65.76	45.988	Data

Table 249: VG horizontal sweep: q=70 RO-tip VG 46 (in) VG AoA -4 — VG at span y=65.5 (in)

D.20. Horizontal VG vortex sweep at height z=45, q=70, α_{VG}=-4, α_W=7, RO-tip

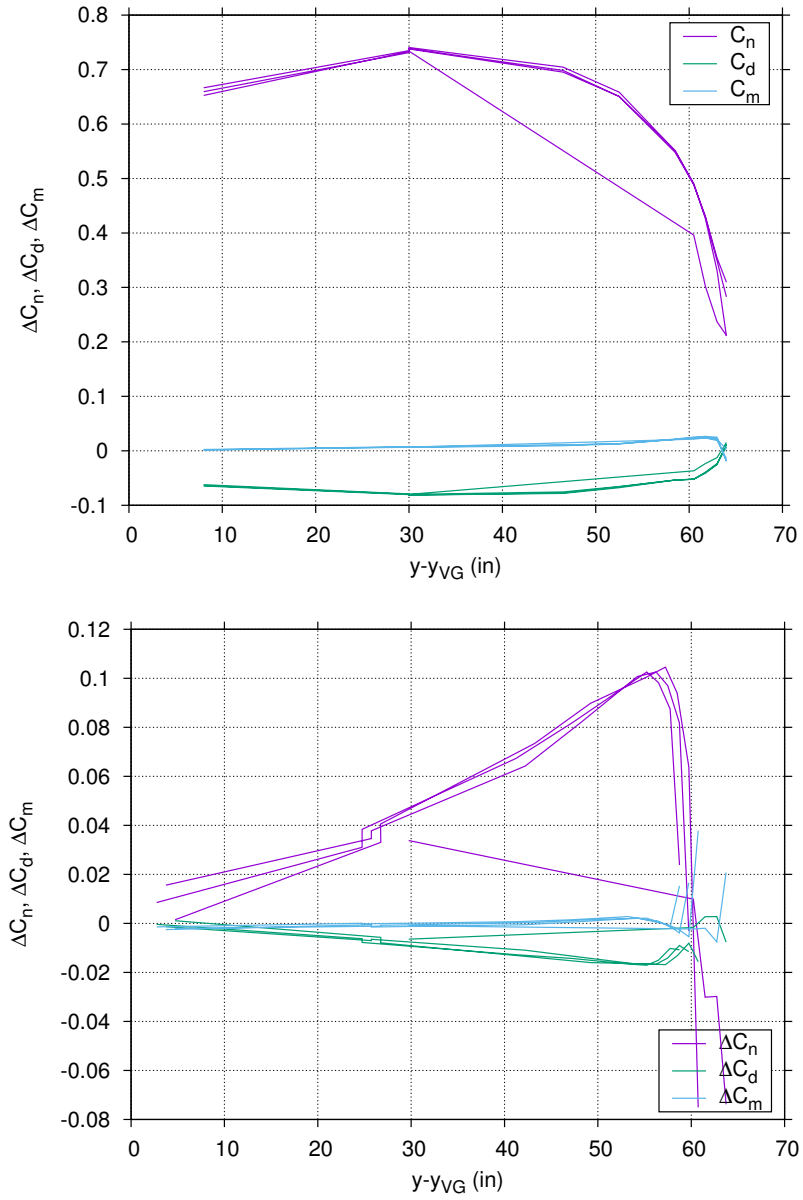

Figure 73. VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA -4 — (Data)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA -4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.514	6.473	57.013	60.766	44.994	Data
30	69.758	6.530	57.008	60.768	44.994	Data
60.5	69.758	6.530	57.008	60.768	44.994	Data
60.5	70.514	6.473	57.013	60.766	44.994	Data
61.75	69.758	6.530	57.008	60.768	44.994	Data
61.75	70.514	6.473	57.013	60.766	44.994	Data
63	69.758	6.530	57.008	60.768	44.994	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA -4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	70.514	6.473	57.013	60.766	44.994	Data
64	69.758	6.530	57.008	60.768	44.994	Data
64	70.514	6.473	57.013	60.766	44.994	Data

Table 250: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA -4 — VG at span y=60.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA -4 — VG at span y=63.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.491	6.526	57.035	63.779	45.006	Data
8	70.464	6.512	57.026	63.779	45.006	Data
30	69.494	6.534	57.012	63.759	45.002	Data
30	69.364	6.549	57.010	63.758	45.002	Data
30	70.491	6.526	57.035	63.779	45.006	Data
30	70.464	6.512	57.026	63.779	45.006	Data
46.5	70.491	6.526	57.035	63.779	45.006	Data
46.5	70.464	6.512	57.026	63.779	45.006	Data
52.5	70.491	6.526	57.035	63.779	45.006	Data
52.5	70.464	6.512	57.026	63.779	45.006	Data
58.5	70.491	6.526	57.035	63.779	45.006	Data
58.5	70.464	6.512	57.026	63.779	45.006	Data
60.5	69.494	6.534	57.012	63.759	45.002	Data
60.5	69.364	6.549	57.010	63.758	45.002	Data
61.75	69.494	6.534	57.012	63.759	45.002	Data
61.75	69.364	6.549	57.010	63.758	45.002	Data
63	69.494	6.534	57.012	63.759	45.002	Data
63	69.364	6.549	57.010	63.758	45.002	Data
64	69.494	6.534	57.012	63.759	45.002	Data
64	69.364	6.549	57.010	63.758	45.002	Data

Table 251: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA -4 — VG at span y=63.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA -4 — VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.305	6.512	57.033	64.768	45.007	Data
8	70.580	6.522	57.035	64.768	45.007	Data
30	69.242	6.507	57.005	64.767	45.003	Data
30	69.750	6.542	57.019	64.767	45.003	Data
30	70.580	6.522	57.035	64.768	45.007	Data
30	70.305	6.512	57.033	64.768	45.007	Data
46.5	70.305	6.512	57.033	64.768	45.007	Data
46.5	70.580	6.522	57.035	64.768	45.007	Data
52.5	70.305	6.512	57.033	64.768	45.007	Data

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA -4 — VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
52.5	70.580	6.522	57.035	64.768	45.007	Data
58.5	70.305	6.512	57.033	64.768	45.007	Data
58.5	70.580	6.522	57.035	64.768	45.007	Data
60.5	69.242	6.507	57.005	64.767	45.003	Data
60.5	69.750	6.542	57.019	64.767	45.003	Data
61.75	69.750	6.542	57.019	64.767	45.003	Data
61.75	69.242	6.507	57.005	64.767	45.003	Data
63	69.750	6.542	57.019	64.767	45.003	Data
63	69.242	6.507	57.005	64.767	45.003	Data
64	69.750	6.542	57.019	64.767	45.003	Data
64	69.242	6.507	57.005	64.767	45.003	Data

Table 252: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA -4 — VG at span y=64.5 (in)

VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA -4 — VG at span y=65.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.945	6.481	57.026	65.759	45.003	Data
8	70.184	6.523	57.036	65.758	45.003	Data
30	69.422	6.517	57.037	65.759	45.004	Data
30	69.269	6.518	57.031	65.759	45.004	Data
30	69.945	6.481	57.026	65.759	45.003	Data
30	70.184	6.523	57.036	65.758	45.003	Data
46.5	69.945	6.481	57.026	65.759	45.003	Data
46.5	70.184	6.523	57.036	65.758	45.003	Data
52.5	69.945	6.481	57.026	65.759	45.003	Data
52.5	70.184	6.523	57.036	65.758	45.003	Data
58.5	70.184	6.523	57.036	65.758	45.003	Data
58.5	69.945	6.481	57.026	65.759	45.003	Data
60.5	69.422	6.517	57.037	65.759	45.004	Data
60.5	69.269	6.518	57.031	65.759	45.004	Data
61.75	69.422	6.517	57.037	65.759	45.004	Data
61.75	69.269	6.518	57.031	65.759	45.004	Data
63	69.422	6.517	57.037	65.759	45.004	Data
63	69.269	6.518	57.031	65.759	45.004	Data
64	69.422	6.517	57.037	65.759	45.004	Data
64	69.269	6.518	57.031	65.759	45.004	Data

Table 253: VG horizontal sweep: q=70 RO-tip VG 45 (in) VG AoA -4 — VG at span y=65.5 (in)

D.21. Horizontal VG vortex sweep at height z=44, q=45, α_{VG}=4, α_W=7, RO-tip

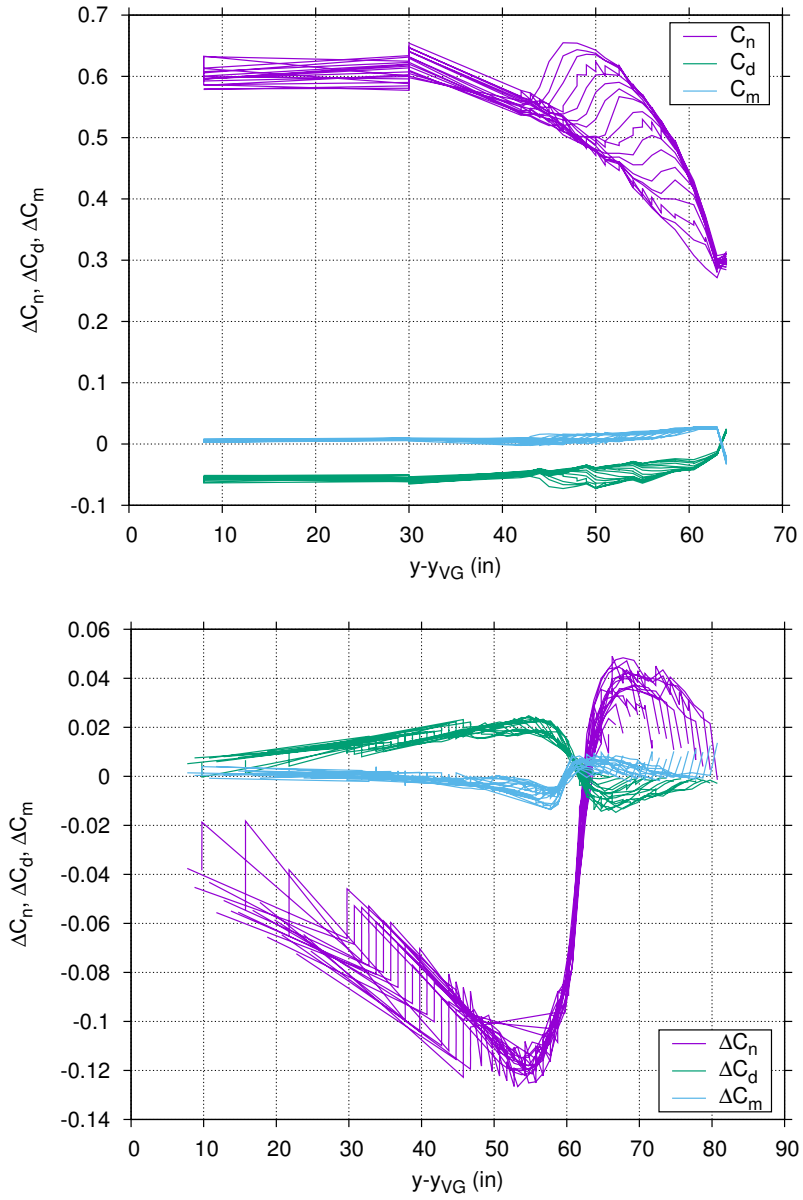

Figure 74. VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — (Data)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.163	6.607	56.969	43.761	44.014	Data
8	45.859	6.571	56.968	43.759	44.014	Data
30	44.354	6.529	56.981	43.755	43.996	Data
30	44.860	6.508	57.002	43.754	43.998	Data
30	44.751	6.557	56.988	43.748	43.980	Data
30	44.463	6.516	56.998	43.754	43.999	Data
30	45.859	6.571	56.968	43.759	44.014	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.907	6.532	56.989	43.755	43.995	Data
30	44.626	6.606	56.985	43.749	43.980	Data
30	44.859	6.649	56.982	43.752	43.998	Data
30	45.163	6.607	56.969	43.761	44.014	Data
30	44.867	6.634	56.987	43.752	43.999	Data
42	44.860	6.508	57.002	43.754	43.998	Data
42	44.463	6.516	56.998	43.754	43.999	Data
43	44.860	6.508	57.002	43.754	43.998	Data
43	44.463	6.516	56.998	43.754	43.999	Data
44	44.860	6.508	57.002	43.754	43.998	Data
44	44.463	6.516	56.998	43.754	43.999	Data
45	44.860	6.508	57.002	43.754	43.998	Data
45	44.463	6.516	56.998	43.754	43.999	Data
46.5	45.859	6.571	56.968	43.759	44.014	Data
46.5	45.163	6.607	56.969	43.761	44.014	Data
48	44.751	6.557	56.988	43.748	43.980	Data
48	44.626	6.606	56.985	43.749	43.980	Data
49	44.751	6.557	56.988	43.748	43.980	Data
49	44.626	6.606	56.985	43.749	43.980	Data
50	44.751	6.557	56.988	43.748	43.980	Data
50	44.626	6.606	56.985	43.749	43.980	Data
51	44.751	6.557	56.988	43.748	43.980	Data
51	44.626	6.606	56.985	43.749	43.980	Data
52.5	45.859	6.571	56.968	43.759	44.014	Data
52.5	45.163	6.607	56.969	43.761	44.014	Data
54	44.907	6.532	56.989	43.755	43.995	Data
54	44.354	6.529	56.981	43.755	43.996	Data
55	44.907	6.532	56.989	43.755	43.995	Data
55	44.354	6.529	56.981	43.755	43.996	Data
56	44.907	6.532	56.989	43.755	43.995	Data
56	44.354	6.529	56.981	43.755	43.996	Data
57	44.907	6.532	56.989	43.755	43.995	Data
57	44.354	6.529	56.981	43.755	43.996	Data
58.5	45.859	6.571	56.968	43.759	44.014	Data
58.5	45.163	6.607	56.969	43.761	44.014	Data
60.5	44.867	6.634	56.987	43.752	43.999	Data
60.5	44.859	6.649	56.982	43.752	43.998	Data
61.75	44.867	6.634	56.987	43.752	43.999	Data
61.75	44.859	6.649	56.982	43.752	43.998	Data
63	44.867	6.634	56.987	43.752	43.999	Data
63	44.859	6.649	56.982	43.752	43.998	Data
64	44.867	6.634	56.987	43.752	43.999	Data
64	44.859	6.649	56.982	43.752	43.998	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 254: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.097	6.621	56.973	44.739	44.014	Data
8	45.370	6.597	56.968	44.738	44.014	Data
30	44.787	6.529	56.996	44.753	43.996	Data
30	44.941	6.599	56.990	44.743	43.999	Data
30	44.774	6.529	56.994	44.751	43.995	Data
30	45.118	6.555	56.992	44.745	43.978	Data
30	45.059	6.585	56.986	44.745	43.979	Data
30	45.191	6.546	57.007	44.74	43.998	Data
30	45.097	6.621	56.973	44.739	44.014	Data
30	44.702	6.624	56.989	44.743	43.999	Data
30	45.221	6.536	56.999	44.74	43.998	Data
30	45.370	6.597	56.968	44.738	44.014	Data
42	45.221	6.536	56.999	44.74	43.998	Data
42	45.191	6.546	57.007	44.74	43.998	Data
43	45.221	6.536	56.999	44.74	43.998	Data
43	45.191	6.546	57.007	44.74	43.998	Data
44	45.221	6.536	56.999	44.74	43.998	Data
44	45.191	6.546	57.007	44.74	43.998	Data
45	45.221	6.536	56.999	44.74	43.998	Data
45	45.191	6.546	57.007	44.74	43.998	Data
46.5	45.370	6.597	56.968	44.738	44.014	Data
46.5	45.097	6.621	56.973	44.739	44.014	Data
48	45.118	6.555	56.992	44.745	43.978	Data
48	45.059	6.585	56.986	44.745	43.979	Data
49	45.118	6.555	56.992	44.745	43.978	Data
49	45.059	6.585	56.986	44.745	43.979	Data
50	45.118	6.555	56.992	44.745	43.978	Data
50	45.059	6.585	56.986	44.745	43.979	Data
51	45.118	6.555	56.992	44.745	43.978	Data
51	45.059	6.585	56.986	44.745	43.979	Data
52.5	45.370	6.597	56.968	44.738	44.014	Data
52.5	45.097	6.621	56.973	44.739	44.014	Data
54	44.774	6.529	56.994	44.751	43.995	Data
54	44.787	6.529	56.996	44.753	43.996	Data
55	44.774	6.529	56.994	44.751	43.995	Data
55	44.787	6.529	56.996	44.753	43.996	Data
56	44.774	6.529	56.994	44.751	43.995	Data
56	44.787	6.529	56.996	44.753	43.996	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	44.774	6.529	56.994	44.751	43.995	Data
57	44.787	6.529	56.996	44.753	43.996	Data
58.5	45.370	6.597	56.968	44.738	44.014	Data
58.5	45.097	6.621	56.973	44.739	44.014	Data
60.5	44.702	6.624	56.989	44.743	43.999	Data
60.5	44.941	6.599	56.990	44.743	43.999	Data
61.75	44.702	6.624	56.989	44.743	43.999	Data
61.75	44.941	6.599	56.990	44.743	43.999	Data
63	44.702	6.624	56.989	44.743	43.999	Data
63	44.941	6.599	56.990	44.743	43.999	Data
64	44.702	6.624	56.989	44.743	43.999	Data
64	44.941	6.599	56.990	44.743	43.999	Data

Table 255: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.394	6.585	56.974	45.74	44.014	Data
8	45.241	6.607	56.965	45.74	44.014	Data
30	45.201	6.519	56.980	45.745	43.995	Data
30	44.434	6.532	56.981	45.747	43.996	Data
30	44.722	6.598	56.989	45.743	43.978	Data
30	45.009	6.536	57.008	45.741	43.998	Data
30	45.154	6.512	57.001	45.741	43.998	Data
30	45.241	6.607	56.965	45.74	44.014	Data
30	45.261	6.606	56.981	45.742	43.999	Data
30	44.617	6.607	56.983	45.744	43.978	Data
30	45.394	6.585	56.974	45.74	44.014	Data
30	45.210	6.624	56.990	45.74	43.999	Data
42	45.154	6.512	57.001	45.741	43.998	Data
42	45.009	6.536	57.008	45.741	43.998	Data
43	45.154	6.512	57.001	45.741	43.998	Data
43	45.009	6.536	57.008	45.741	43.998	Data
44	45.154	6.512	57.001	45.741	43.998	Data
44	45.009	6.536	57.008	45.741	43.998	Data
45	45.154	6.512	57.001	45.741	43.998	Data
45	45.009	6.536	57.008	45.741	43.998	Data
46.5	45.394	6.585	56.974	45.74	44.014	Data
46.5	45.241	6.607	56.965	45.74	44.014	Data
48	44.722	6.598	56.989	45.743	43.978	Data
48	44.617	6.607	56.983	45.744	43.978	Data
49	44.722	6.598	56.989	45.743	43.978	Data
49	44.617	6.607	56.983	45.744	43.978	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	44.722	6.598	56.989	45.743	43.978	Data
50	44.617	6.607	56.983	45.744	43.978	Data
51	44.722	6.598	56.989	45.743	43.978	Data
51	44.617	6.607	56.983	45.744	43.978	Data
52.5	45.394	6.585	56.974	45.74	44.014	Data
52.5	45.241	6.607	56.965	45.74	44.014	Data
54	45.201	6.519	56.980	45.745	43.995	Data
54	44.434	6.532	56.981	45.747	43.996	Data
55	45.201	6.519	56.980	45.745	43.995	Data
55	44.434	6.532	56.981	45.747	43.996	Data
56	45.201	6.519	56.980	45.745	43.995	Data
56	44.434	6.532	56.981	45.747	43.996	Data
57	45.201	6.519	56.980	45.745	43.995	Data
57	44.434	6.532	56.981	45.747	43.996	Data
58.5	45.394	6.585	56.974	45.74	44.014	Data
58.5	45.241	6.607	56.965	45.74	44.014	Data
60.5	45.210	6.624	56.990	45.74	43.999	Data
60.5	45.261	6.606	56.981	45.742	43.999	Data
61.75	45.210	6.624	56.990	45.74	43.999	Data
61.75	45.261	6.606	56.981	45.742	43.999	Data
63	45.210	6.624	56.990	45.74	43.999	Data
63	45.261	6.606	56.981	45.742	43.999	Data
64	45.210	6.624	56.990	45.74	43.999	Data
64	45.261	6.606	56.981	45.742	43.999	Data

Table 256: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.400	6.594	56.967	46.743	44.015	Data
8	45.610	6.611	56.971	46.744	44.015	Data
8	45.478	6.588	56.981	46.749	44.009	Data
8	44.973	6.609	56.984	46.749	44.008	Data
30	44.824	6.544	56.977	46.741	43.996	Data
30	44.797	6.506	56.984	46.74	43.996	Data
30	45.094	6.570	57.043	46.746	44.005	Data
30	45.246	6.564	57.042	46.745	44.005	Data
30	44.973	6.609	56.984	46.749	44.008	Data
30	45.279	6.573	56.988	46.747	43.977	Data
30	45.270	6.579	56.993	46.746	43.977	Data
30	45.197	6.551	57.007	46.742	44.034	Data
30	45.344	6.539	57.005	46.742	43.998	Data
30	45.105	6.606	56.986	46.743	43.999	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.490	6.532	57.005	46.743	43.997	Data
30	44.762	6.589	57.016	46.743	44.011	Data
30	45.478	6.588	56.981	46.749	44.009	Data
30	43.652	6.562	57.001	46.748	44.002	Data
30	44.626	6.592	57.018	46.742	44.011	Data
30	45.610	6.611	56.971	46.744	44.015	Data
30	45.110	6.554	57.006	46.742	44.034	Data
30	43.319	6.554	56.996	46.748	44.002	Data
30	44.536	6.607	56.983	46.743	43.999	Data
30	45.400	6.594	56.967	46.743	44.015	Data
42	45.344	6.539	57.005	46.742	43.998	Data
42	43.319	6.554	56.996	46.748	44.002	Data
42	45.490	6.532	57.005	46.743	43.997	Data
42	43.652	6.562	57.001	46.748	44.002	Data
43	43.319	6.554	56.996	46.748	44.002	Data
43	45.344	6.539	57.005	46.742	43.998	Data
43	45.490	6.532	57.005	46.743	43.997	Data
43	43.652	6.562	57.001	46.748	44.002	Data
44	43.319	6.554	56.996	46.748	44.002	Data
44	45.344	6.539	57.005	46.742	43.998	Data
44	45.490	6.532	57.005	46.743	43.997	Data
44	43.652	6.562	57.001	46.748	44.002	Data
45	43.319	6.554	56.996	46.748	44.002	Data
45	45.344	6.539	57.005	46.742	43.998	Data
45	45.490	6.532	57.005	46.743	43.997	Data
45	43.652	6.562	57.001	46.748	44.002	Data
46.5	45.400	6.594	56.967	46.743	44.015	Data
46.5	45.478	6.588	56.981	46.749	44.009	Data
46.5	45.610	6.611	56.971	46.744	44.015	Data
46.5	44.973	6.609	56.984	46.749	44.008	Data
48	45.279	6.573	56.988	46.747	43.977	Data
48	45.270	6.579	56.993	46.746	43.977	Data
48	45.094	6.570	57.043	46.746	44.005	Data
48	45.246	6.564	57.042	46.745	44.005	Data
49	45.279	6.573	56.988	46.747	43.977	Data
49	45.270	6.579	56.993	46.746	43.977	Data
49	45.094	6.570	57.043	46.746	44.005	Data
49	45.246	6.564	57.042	46.745	44.005	Data
50	45.279	6.573	56.988	46.747	43.977	Data
50	45.270	6.579	56.993	46.746	43.977	Data
50	45.094	6.570	57.043	46.746	44.005	Data
50	45.246	6.564	57.042	46.745	44.005	Data
51	45.279	6.573	56.988	46.747	43.977	Data
51	45.270	6.579	56.993	46.746	43.977	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	45.094	6.570	57.043	46.746	44.005	Data
51	45.246	6.564	57.042	46.745	44.005	Data
52.5	45.478	6.588	56.981	46.749	44.009	Data
52.5	45.400	6.594	56.967	46.743	44.015	Data
52.5	45.610	6.611	56.971	46.744	44.015	Data
52.5	44.973	6.609	56.984	46.749	44.008	Data
54	44.762	6.589	57.016	46.743	44.011	Data
54	44.626	6.592	57.018	46.742	44.011	Data
54	44.824	6.544	56.977	46.741	43.996	Data
54	44.797	6.506	56.984	46.74	43.996	Data
55	44.762	6.589	57.016	46.743	44.011	Data
55	44.626	6.592	57.018	46.742	44.011	Data
55	44.797	6.506	56.984	46.74	43.996	Data
55	44.824	6.544	56.977	46.741	43.996	Data
56	44.762	6.589	57.016	46.743	44.011	Data
56	44.797	6.506	56.984	46.74	43.996	Data
56	44.626	6.592	57.018	46.742	44.011	Data
56	44.824	6.544	56.977	46.741	43.996	Data
57	44.762	6.589	57.016	46.743	44.011	Data
57	44.797	6.506	56.984	46.74	43.996	Data
57	44.626	6.592	57.018	46.742	44.011	Data
57	44.824	6.544	56.977	46.741	43.996	Data
58.5	45.478	6.588	56.981	46.749	44.009	Data
58.5	45.610	6.611	56.971	46.744	44.015	Data
58.5	45.400	6.594	56.967	46.743	44.015	Data
58.5	44.973	6.609	56.984	46.749	44.008	Data
60.5	45.110	6.554	57.006	46.742	44.034	Data
60.5	45.105	6.606	56.986	46.743	43.999	Data
60.5	45.197	6.551	57.007	46.742	44.034	Data
60.5	44.536	6.607	56.983	46.743	43.999	Data
61.75	45.110	6.554	57.006	46.742	44.034	Data
61.75	45.105	6.606	56.986	46.743	43.999	Data
61.75	45.197	6.551	57.007	46.742	44.034	Data
61.75	44.536	6.607	56.983	46.743	43.999	Data
63	45.110	6.554	57.006	46.742	44.034	Data
63	45.105	6.606	56.986	46.743	43.999	Data
63	45.197	6.551	57.007	46.742	44.034	Data
63	44.536	6.607	56.983	46.743	43.999	Data
64	45.105	6.606	56.986	46.743	43.999	Data
64	45.110	6.554	57.006	46.742	44.034	Data
64	45.197	6.551	57.007	46.742	44.034	Data
64	44.536	6.607	56.983	46.743	43.999	Data

Table 257: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.046	6.566	56.975	47.748	44.015	Data
8	45.302	6.591	56.972	47.749	44.015	Data
30	45.004	6.535	56.983	47.746	43.995	Data
30	44.971	6.542	57.007	47.741	43.998	Data
30	44.837	6.531	57.010	47.741	43.998	Data
30	44.746	6.544	56.983	47.746	43.994	Data
30	44.687	6.567	56.991	47.746	43.976	Data
30	45.046	6.566	56.975	47.748	44.015	Data
30	44.965	6.594	56.988	47.746	43.976	Data
30	44.564	6.596	56.982	47.755	43.999	Data
30	45.126	6.592	56.990	47.753	43.999	Data
30	45.302	6.591	56.972	47.749	44.015	Data
42	44.837	6.531	57.010	47.741	43.998	Data
42	44.971	6.542	57.007	47.741	43.998	Data
43	44.837	6.531	57.010	47.741	43.998	Data
43	44.971	6.542	57.007	47.741	43.998	Data
44	44.837	6.531	57.010	47.741	43.998	Data
44	44.971	6.542	57.007	47.741	43.998	Data
45	44.837	6.531	57.010	47.741	43.998	Data
45	44.971	6.542	57.007	47.741	43.998	Data
46.5	45.302	6.591	56.972	47.749	44.015	Data
46.5	45.046	6.566	56.975	47.748	44.015	Data
48	44.687	6.567	56.991	47.746	43.976	Data
48	44.965	6.594	56.988	47.746	43.976	Data
49	44.687	6.567	56.991	47.746	43.976	Data
49	44.965	6.594	56.988	47.746	43.976	Data
50	44.687	6.567	56.991	47.746	43.976	Data
50	44.965	6.594	56.988	47.746	43.976	Data
51	44.687	6.567	56.991	47.746	43.976	Data
51	44.965	6.594	56.988	47.746	43.976	Data
52.5	45.302	6.591	56.972	47.749	44.015	Data
52.5	45.046	6.566	56.975	47.748	44.015	Data
54	45.004	6.535	56.983	47.746	43.995	Data
54	44.746	6.544	56.983	47.746	43.994	Data
55	45.004	6.535	56.983	47.746	43.995	Data
55	44.746	6.544	56.983	47.746	43.994	Data
56	45.004	6.535	56.983	47.746	43.995	Data
56	44.746	6.544	56.983	47.746	43.994	Data
57	45.004	6.535	56.983	47.746	43.995	Data
57	44.746	6.544	56.983	47.746	43.994	Data
58.5	45.046	6.566	56.975	47.748	44.015	Data
58.5	45.302	6.591	56.972	47.749	44.015	Data
60.5	45.126	6.592	56.990	47.753	43.999	Data
60.5	44.564	6.596	56.982	47.755	43.999	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	45.126	6.592	56.990	47.753	43.999	Data
61.75	44.564	6.596	56.982	47.755	43.999	Data
63	45.126	6.592	56.990	47.753	43.999	Data
63	44.564	6.596	56.982	47.755	43.999	Data
64	45.126	6.592	56.990	47.753	43.999	Data
64	44.564	6.596	56.982	47.755	43.999	Data

Table 258: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.179	6.593	56.973	48.754	44.015	Data
8	45.783	6.580	56.975	48.755	44.015	Data
30	44.794	6.519	56.984	48.756	43.994	Data
30	44.901	6.538	57.003	48.75	43.998	Data
30	44.947	6.568	56.980	48.744	43.975	Data
30	45.760	6.519	57.005	48.751	43.998	Data
30	45.070	6.601	56.979	48.743	43.975	Data
30	44.757	6.528	56.993	48.754	43.994	Data
30	45.783	6.580	56.975	48.755	44.015	Data
30	45.069	6.626	56.979	48.737	43.999	Data
30	44.660	6.581	56.980	48.738	43.999	Data
30	45.179	6.593	56.973	48.754	44.015	Data
42	45.760	6.519	57.005	48.751	43.998	Data
42	44.901	6.538	57.003	48.75	43.998	Data
43	45.760	6.519	57.005	48.751	43.998	Data
43	44.901	6.538	57.003	48.75	43.998	Data
44	45.760	6.519	57.005	48.751	43.998	Data
44	44.901	6.538	57.003	48.75	43.998	Data
45	45.760	6.519	57.005	48.751	43.998	Data
45	44.901	6.538	57.003	48.75	43.998	Data
46.5	45.783	6.580	56.975	48.755	44.015	Data
46.5	45.179	6.593	56.973	48.754	44.015	Data
48	44.947	6.568	56.980	48.744	43.975	Data
48	45.070	6.601	56.979	48.743	43.975	Data
49	44.947	6.568	56.980	48.744	43.975	Data
49	45.070	6.601	56.979	48.743	43.975	Data
50	44.947	6.568	56.980	48.744	43.975	Data
50	45.070	6.601	56.979	48.743	43.975	Data
51	44.947	6.568	56.980	48.744	43.975	Data
51	45.070	6.601	56.979	48.743	43.975	Data
52.5	45.783	6.580	56.975	48.755	44.015	Data
52.5	45.179	6.593	56.973	48.754	44.015	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	44.757	6.528	56.993	48.754	43.994	Data
54	44.794	6.519	56.984	48.756	43.994	Data
55	44.757	6.528	56.993	48.754	43.994	Data
55	44.794	6.519	56.984	48.756	43.994	Data
56	44.757	6.528	56.993	48.754	43.994	Data
56	44.794	6.519	56.984	48.756	43.994	Data
57	44.757	6.528	56.993	48.754	43.994	Data
57	44.794	6.519	56.984	48.756	43.994	Data
58.5	45.783	6.580	56.975	48.755	44.015	Data
58.5	45.179	6.593	56.973	48.754	44.015	Data
60.5	44.660	6.581	56.980	48.738	43.999	Data
60.5	45.069	6.626	56.979	48.737	43.999	Data
61.75	44.660	6.581	56.980	48.738	43.999	Data
61.75	45.069	6.626	56.979	48.737	43.999	Data
63	44.660	6.581	56.980	48.738	43.999	Data
63	45.069	6.626	56.979	48.737	43.999	Data
64	44.660	6.581	56.980	48.738	43.999	Data
64	45.069	6.626	56.979	48.737	43.999	Data

Table 259: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.453	6.609	56.974	49.754	44.015	Data
8	45.155	6.581	56.982	49.752	44.015	Data
30	45.151	6.542	56.993	49.754	43.995	Data
30	45.194	6.560	56.971	49.746	43.975	Data
30	45.453	6.609	56.974	49.754	44.015	Data
30	44.586	6.533	56.994	49.754	43.994	Data
30	44.695	6.602	56.981	49.76	43.999	Data
30	45.334	6.502	57.009	49.746	43.998	Data
30	45.269	6.541	57.004	49.746	43.998	Data
30	45.067	6.574	56.980	49.745	43.975	Data
30	45.336	6.620	56.983	49.759	43.999	Data
30	45.155	6.581	56.982	49.752	44.015	Data
42	45.334	6.502	57.009	49.746	43.998	Data
42	45.269	6.541	57.004	49.746	43.998	Data
43	45.334	6.502	57.009	49.746	43.998	Data
43	45.269	6.541	57.004	49.746	43.998	Data
44	45.334	6.502	57.009	49.746	43.998	Data
44	45.269	6.541	57.004	49.746	43.998	Data
45	45.334	6.502	57.009	49.746	43.998	Data
45	45.269	6.541	57.004	49.746	43.998	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	45.155	6.581	56.982	49.752	44.015	Data
46.5	45.453	6.609	56.974	49.754	44.015	Data
48	45.194	6.560	56.971	49.746	43.975	Data
48	45.067	6.574	56.980	49.745	43.975	Data
49	45.194	6.560	56.971	49.746	43.975	Data
49	45.067	6.574	56.980	49.745	43.975	Data
50	45.194	6.560	56.971	49.746	43.975	Data
50	45.067	6.574	56.980	49.745	43.975	Data
51	45.194	6.560	56.971	49.746	43.975	Data
51	45.067	6.574	56.980	49.745	43.975	Data
52.5	45.155	6.581	56.982	49.752	44.015	Data
52.5	45.453	6.609	56.974	49.754	44.015	Data
54	44.586	6.533	56.994	49.754	43.994	Data
54	45.151	6.542	56.993	49.754	43.995	Data
55	44.586	6.533	56.994	49.754	43.994	Data
55	45.151	6.542	56.993	49.754	43.995	Data
56	44.586	6.533	56.994	49.754	43.994	Data
56	45.151	6.542	56.993	49.754	43.995	Data
57	44.586	6.533	56.994	49.754	43.994	Data
57	45.151	6.542	56.993	49.754	43.995	Data
58.5	45.453	6.609	56.974	49.754	44.015	Data
58.5	45.155	6.581	56.982	49.752	44.015	Data
60.5	45.336	6.620	56.983	49.759	43.999	Data
60.5	44.695	6.602	56.981	49.76	43.999	Data
61.75	45.336	6.620	56.983	49.759	43.999	Data
61.75	44.695	6.602	56.981	49.76	43.999	Data
63	45.336	6.620	56.983	49.759	43.999	Data
63	44.695	6.602	56.981	49.76	43.999	Data
64	45.336	6.620	56.983	49.759	43.999	Data
64	44.695	6.602	56.981	49.76	43.999	Data

Table 260: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.625	6.568	56.979	50.749	44.015	Data
8	45.251	6.603	56.977	50.748	44.015	Data
30	44.935	6.583	56.980	50.741	43.974	Data
30	44.636	6.581	56.978	50.741	43.974	Data
30	45.040	6.495	56.983	50.748	43.994	Data
30	45.625	6.568	56.979	50.749	44.015	Data
30	45.018	6.533	56.986	50.748	43.994	Data
30	45.600	6.518	56.999	50.745	43.998	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.220	6.518	57.004	50.745	43.998	Data
30	45.251	6.603	56.977	50.748	44.015	Data
30	44.893	6.580	56.975	50.752	43.998	Data
30	44.830	6.612	56.985	50.752	43.999	Data
42	45.600	6.518	56.999	50.745	43.998	Data
42	45.220	6.518	57.004	50.745	43.998	Data
43	45.600	6.518	56.999	50.745	43.998	Data
43	45.220	6.518	57.004	50.745	43.998	Data
44	45.600	6.518	56.999	50.745	43.998	Data
44	45.220	6.518	57.004	50.745	43.998	Data
45	45.600	6.518	56.999	50.745	43.998	Data
45	45.220	6.518	57.004	50.745	43.998	Data
46.5	45.625	6.568	56.979	50.749	44.015	Data
46.5	45.251	6.603	56.977	50.748	44.015	Data
48	44.935	6.583	56.980	50.741	43.974	Data
48	44.636	6.581	56.978	50.741	43.974	Data
49	44.935	6.583	56.980	50.741	43.974	Data
49	44.636	6.581	56.978	50.741	43.974	Data
50	44.935	6.583	56.980	50.741	43.974	Data
50	44.636	6.581	56.978	50.741	43.974	Data
51	44.935	6.583	56.980	50.741	43.974	Data
51	44.636	6.581	56.978	50.741	43.974	Data
52.5	45.625	6.568	56.979	50.749	44.015	Data
52.5	45.251	6.603	56.977	50.748	44.015	Data
54	45.040	6.495	56.983	50.748	43.994	Data
54	45.018	6.533	56.986	50.748	43.994	Data
55	45.040	6.495	56.983	50.748	43.994	Data
55	45.018	6.533	56.986	50.748	43.994	Data
56	45.040	6.495	56.983	50.748	43.994	Data
56	45.018	6.533	56.986	50.748	43.994	Data
57	45.040	6.495	56.983	50.748	43.994	Data
57	45.018	6.533	56.986	50.748	43.994	Data
58.5	45.625	6.568	56.979	50.749	44.015	Data
58.5	45.251	6.603	56.977	50.748	44.015	Data
60.5	44.830	6.612	56.985	50.752	43.999	Data
60.5	44.893	6.580	56.975	50.752	43.998	Data
61.75	44.830	6.612	56.985	50.752	43.999	Data
61.75	44.893	6.580	56.975	50.752	43.998	Data
63	44.830	6.612	56.985	50.752	43.999	Data
63	44.893	6.580	56.975	50.752	43.998	Data
64	44.830	6.612	56.985	50.752	43.999	Data
64	44.893	6.580	56.975	50.752	43.998	Data

Table 261: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.993	6.576	56.971	51.754	44.015	Data
8	45.510	6.619	56.972	51.754	44.015	Data
30	44.898	6.563	56.987	51.745	43.974	Data
30	45.024	6.592	56.985	51.744	43.974	Data
30	44.818	6.536	56.987	51.749	43.993	Data
30	45.502	6.502	57.008	51.746	43.998	Data
30	45.410	6.534	57.005	51.747	43.998	Data
30	44.764	6.540	56.987	51.748	43.993	Data
30	44.984	6.629	56.982	51.753	43.998	Data
30	45.510	6.619	56.972	51.754	44.015	Data
30	45.993	6.576	56.971	51.754	44.015	Data
30	45.218	6.620	56.978	51.753	43.998	Data
42	45.502	6.502	57.008	51.746	43.998	Data
42	45.410	6.534	57.005	51.747	43.998	Data
43	45.502	6.502	57.008	51.746	43.998	Data
43	45.410	6.534	57.005	51.747	43.998	Data
44	45.502	6.502	57.008	51.746	43.998	Data
44	45.410	6.534	57.005	51.747	43.998	Data
45	45.502	6.502	57.008	51.746	43.998	Data
45	45.410	6.534	57.005	51.747	43.998	Data
46.5	45.993	6.576	56.971	51.754	44.015	Data
46.5	45.510	6.619	56.972	51.754	44.015	Data
48	44.898	6.563	56.987	51.745	43.974	Data
48	45.024	6.592	56.985	51.744	43.974	Data
49	44.898	6.563	56.987	51.745	43.974	Data
49	45.024	6.592	56.985	51.744	43.974	Data
50	44.898	6.563	56.987	51.745	43.974	Data
50	45.024	6.592	56.985	51.744	43.974	Data
51	44.898	6.563	56.987	51.745	43.974	Data
51	45.024	6.592	56.985	51.744	43.974	Data
52.5	45.993	6.576	56.971	51.754	44.015	Data
52.5	45.510	6.619	56.972	51.754	44.015	Data
54	44.818	6.536	56.987	51.749	43.993	Data
54	44.764	6.540	56.987	51.748	43.993	Data
55	44.764	6.540	56.987	51.748	43.993	Data
55	44.818	6.536	56.987	51.749	43.993	Data
56	44.764	6.540	56.987	51.748	43.993	Data
56	44.818	6.536	56.987	51.749	43.993	Data
57	44.764	6.540	56.987	51.748	43.993	Data
57	44.818	6.536	56.987	51.749	43.993	Data
58.5	45.993	6.576	56.971	51.754	44.015	Data
58.5	45.510	6.619	56.972	51.754	44.015	Data
60.5	44.984	6.629	56.982	51.753	43.998	Data
60.5	45.218	6.620	56.978	51.753	43.998	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	44.984	6.629	56.982	51.753	43.998	Data
61.75	45.218	6.620	56.978	51.753	43.998	Data
63	44.984	6.629	56.982	51.753	43.998	Data
63	45.218	6.620	56.978	51.753	43.998	Data
64	44.984	6.629	56.982	51.753	43.998	Data
64	45.218	6.620	56.978	51.753	43.998	Data

Table 262: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.311	6.605	56.971	52.75	44.015	Data
8	45.626	6.593	56.973	52.747	44.015	Data
8	44.823	6.601	56.982	52.751	44.004	Data
8	45.448	6.614	56.985	52.75	44.003	Data
30	45.359	6.585	56.989	52.741	43.973	Data
30	44.957	6.542	56.988	52.744	43.993	Data
30	45.331	6.520	56.986	52.746	43.993	Data
30	45.507	6.540	57.043	52.751	44.007	Data
30	44.823	6.601	56.982	52.751	44.004	Data
30	45.311	6.605	56.971	52.75	44.015	Data
30	44.864	6.578	57.015	52.751	44.004	Data
30	43.961	6.572	57.000	52.748	44.006	Data
30	45.448	6.614	56.985	52.75	44.003	Data
30	45.064	6.588	56.985	52.741	43.973	Data
30	45.899	6.571	57.008	52.754	44.037	Data
30	45.440	6.554	57.005	52.745	43.998	Data
30	45.366	6.544	57.009	52.754	44.037	Data
30	45.262	6.621	56.978	52.752	43.998	Data
30	45.405	6.569	57.043	52.752	44.008	Data
30	45.486	6.539	57.007	52.746	43.998	Data
30	43.542	6.577	57.002	52.746	44.006	Data
30	45.626	6.593	56.973	52.747	44.015	Data
30	44.483	6.560	57.024	52.75	44.004	Data
30	45.601	6.621	56.986	52.751	43.998	Data
42	43.542	6.577	57.002	52.746	44.006	Data
42	43.961	6.572	57.000	52.748	44.006	Data
42	45.486	6.539	57.007	52.746	43.998	Data
42	45.440	6.554	57.005	52.745	43.998	Data
43	43.542	6.577	57.002	52.746	44.006	Data
43	43.961	6.572	57.000	52.748	44.006	Data
43	45.486	6.539	57.007	52.746	43.998	Data
43	45.440	6.554	57.005	52.745	43.998	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	43.961	6.572	57.000	52.748	44.006	Data
44	43.542	6.577	57.002	52.746	44.006	Data
44	45.486	6.539	57.007	52.746	43.998	Data
44	45.440	6.554	57.005	52.745	43.998	Data
45	43.961	6.572	57.000	52.748	44.006	Data
45	43.542	6.577	57.002	52.746	44.006	Data
45	45.486	6.539	57.007	52.746	43.998	Data
45	45.440	6.554	57.005	52.745	43.998	Data
46.5	44.823	6.601	56.982	52.751	44.004	Data
46.5	45.311	6.605	56.971	52.75	44.015	Data
46.5	45.626	6.593	56.973	52.747	44.015	Data
46.5	45.448	6.614	56.985	52.75	44.003	Data
48	45.507	6.540	57.043	52.751	44.007	Data
48	45.359	6.585	56.989	52.741	43.973	Data
48	45.064	6.588	56.985	52.741	43.973	Data
48	45.405	6.569	57.043	52.752	44.008	Data
49	45.507	6.540	57.043	52.751	44.007	Data
49	45.359	6.585	56.989	52.741	43.973	Data
49	45.064	6.588	56.985	52.741	43.973	Data
49	45.405	6.569	57.043	52.752	44.008	Data
50	45.507	6.540	57.043	52.751	44.007	Data
50	45.359	6.585	56.989	52.741	43.973	Data
50	45.064	6.588	56.985	52.741	43.973	Data
50	45.405	6.569	57.043	52.752	44.008	Data
51	45.507	6.540	57.043	52.751	44.007	Data
51	45.359	6.585	56.989	52.741	43.973	Data
51	45.064	6.588	56.985	52.741	43.973	Data
51	45.405	6.569	57.043	52.752	44.008	Data
52.5	45.311	6.605	56.971	52.75	44.015	Data
52.5	45.626	6.593	56.973	52.747	44.015	Data
52.5	44.823	6.601	56.982	52.751	44.004	Data
52.5	45.448	6.614	56.985	52.75	44.003	Data
54	45.331	6.520	56.986	52.746	43.993	Data
54	44.957	6.542	56.988	52.744	43.993	Data
54	44.864	6.578	57.015	52.751	44.004	Data
54	44.483	6.560	57.024	52.75	44.004	Data
55	45.331	6.520	56.986	52.746	43.993	Data
55	44.957	6.542	56.988	52.744	43.993	Data
55	44.864	6.578	57.015	52.751	44.004	Data
55	44.483	6.560	57.024	52.75	44.004	Data
56	45.331	6.520	56.986	52.746	43.993	Data
56	44.957	6.542	56.988	52.744	43.993	Data
56	44.864	6.578	57.015	52.751	44.004	Data
56	44.483	6.560	57.024	52.75	44.004	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	45.331	6.520	56.986	52.746	43.993	Data
57	44.957	6.542	56.988	52.744	43.993	Data
57	44.864	6.578	57.015	52.751	44.004	Data
57	44.483	6.560	57.024	52.75	44.004	Data
58.5	45.311	6.605	56.971	52.75	44.015	Data
58.5	45.626	6.593	56.973	52.747	44.015	Data
58.5	44.823	6.601	56.982	52.751	44.004	Data
58.5	45.448	6.614	56.985	52.75	44.003	Data
60.5	45.601	6.621	56.986	52.751	43.998	Data
60.5	45.366	6.544	57.009	52.754	44.037	Data
60.5	45.262	6.621	56.978	52.752	43.998	Data
60.5	45.899	6.571	57.008	52.754	44.037	Data
61.75	45.601	6.621	56.986	52.751	43.998	Data
61.75	45.366	6.544	57.009	52.754	44.037	Data
61.75	45.262	6.621	56.978	52.752	43.998	Data
61.75	45.899	6.571	57.008	52.754	44.037	Data
63	45.601	6.621	56.986	52.751	43.998	Data
63	45.899	6.571	57.008	52.754	44.037	Data
63	45.262	6.621	56.978	52.752	43.998	Data
63	45.366	6.544	57.009	52.754	44.037	Data
64	45.899	6.571	57.008	52.754	44.037	Data
64	45.262	6.621	56.978	52.752	43.998	Data
64	45.601	6.621	56.986	52.751	43.998	Data
64	45.366	6.544	57.009	52.754	44.037	Data

Table 263: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.902	6.596	56.967	53.746	44.015	Data
8	45.415	6.576	56.972	53.745	44.015	Data
30	45.607	6.538	56.988	53.743	43.992	Data
30	45.323	6.543	56.987	53.744	43.992	Data
30	45.493	6.566	56.990	53.741	43.972	Data
30	45.902	6.596	56.967	53.746	44.015	Data
30	44.898	6.576	56.992	53.74	43.973	Data
30	45.367	6.545	57.000	53.737	43.998	Data
30	45.353	6.531	57.003	53.737	43.999	Data
30	45.415	6.576	56.972	53.745	44.015	Data
30	45.340	6.584	56.980	53.743	43.998	Data
30	45.135	6.630	56.981	53.744	43.998	Data
42	45.353	6.531	57.003	53.737	43.999	Data
42	45.367	6.545	57.000	53.737	43.998	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	45.353	6.531	57.003	53.737	43.999	Data
43	45.367	6.545	57.000	53.737	43.998	Data
44	45.353	6.531	57.003	53.737	43.999	Data
44	45.367	6.545	57.000	53.737	43.998	Data
45	45.353	6.531	57.003	53.737	43.999	Data
45	45.367	6.545	57.000	53.737	43.998	Data
46.5	45.902	6.596	56.967	53.746	44.015	Data
46.5	45.415	6.576	56.972	53.745	44.015	Data
48	45.493	6.566	56.990	53.741	43.972	Data
48	44.898	6.576	56.992	53.74	43.973	Data
49	45.493	6.566	56.990	53.741	43.972	Data
49	44.898	6.576	56.992	53.74	43.973	Data
50	45.493	6.566	56.990	53.741	43.972	Data
50	44.898	6.576	56.992	53.74	43.973	Data
51	45.493	6.566	56.990	53.741	43.972	Data
51	44.898	6.576	56.992	53.74	43.973	Data
52.5	45.902	6.596	56.967	53.746	44.015	Data
52.5	45.415	6.576	56.972	53.745	44.015	Data
54	45.323	6.543	56.987	53.744	43.992	Data
54	45.607	6.538	56.988	53.743	43.992	Data
55	45.323	6.543	56.987	53.744	43.992	Data
55	45.607	6.538	56.988	53.743	43.992	Data
56	45.323	6.543	56.987	53.744	43.992	Data
56	45.607	6.538	56.988	53.743	43.992	Data
57	45.323	6.543	56.987	53.744	43.992	Data
57	45.607	6.538	56.988	53.743	43.992	Data
58.5	45.902	6.596	56.967	53.746	44.015	Data
58.5	45.415	6.576	56.972	53.745	44.015	Data
60.5	45.340	6.584	56.980	53.743	43.998	Data
60.5	45.135	6.630	56.981	53.744	43.998	Data
61.75	45.340	6.584	56.980	53.743	43.998	Data
61.75	45.135	6.630	56.981	53.744	43.998	Data
63	45.340	6.584	56.980	53.743	43.998	Data
63	45.135	6.630	56.981	53.744	43.998	Data
64	45.135	6.630	56.981	53.744	43.998	Data
64	45.340	6.584	56.980	53.743	43.998	Data

Table 264: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.879	6.611	56.970	54.748	44.015	Data
8	45.760	6.602	56.974	54.746	44.015	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.298	6.542	56.988	54.742	43.992	Data
30	45.396	6.577	56.988	54.744	43.972	Data
30	45.879	6.611	56.970	54.748	44.015	Data
30	45.443	6.520	57.003	54.741	43.998	Data
30	44.968	6.569	56.988	54.746	43.972	Data
30	46.072	6.528	57.002	54.741	43.998	Data
30	44.758	6.549	56.984	54.743	43.992	Data
30	45.848	6.641	56.980	54.74	43.998	Data
30	45.760	6.602	56.974	54.746	44.015	Data
30	45.363	6.647	56.982	54.742	43.998	Data
42	45.443	6.520	57.003	54.741	43.998	Data
42	46.072	6.528	57.002	54.741	43.998	Data
43	45.443	6.520	57.003	54.741	43.998	Data
43	46.072	6.528	57.002	54.741	43.998	Data
44	45.443	6.520	57.003	54.741	43.998	Data
44	46.072	6.528	57.002	54.741	43.998	Data
45	45.443	6.520	57.003	54.741	43.998	Data
45	46.072	6.528	57.002	54.741	43.998	Data
46.5	45.879	6.611	56.970	54.748	44.015	Data
46.5	45.760	6.602	56.974	54.746	44.015	Data
48	45.396	6.577	56.988	54.744	43.972	Data
48	44.968	6.569	56.988	54.746	43.972	Data
49	45.396	6.577	56.988	54.744	43.972	Data
49	44.968	6.569	56.988	54.746	43.972	Data
50	45.396	6.577	56.988	54.744	43.972	Data
50	44.968	6.569	56.988	54.746	43.972	Data
51	45.396	6.577	56.988	54.744	43.972	Data
51	44.968	6.569	56.988	54.746	43.972	Data
52.5	45.879	6.611	56.970	54.748	44.015	Data
52.5	45.760	6.602	56.974	54.746	44.015	Data
54	45.298	6.542	56.988	54.742	43.992	Data
54	44.758	6.549	56.984	54.743	43.992	Data
55	45.298	6.542	56.988	54.742	43.992	Data
55	44.758	6.549	56.984	54.743	43.992	Data
56	45.298	6.542	56.988	54.742	43.992	Data
56	44.758	6.549	56.984	54.743	43.992	Data
57	45.298	6.542	56.988	54.742	43.992	Data
57	44.758	6.549	56.984	54.743	43.992	Data
58.5	45.879	6.611	56.970	54.748	44.015	Data
58.5	45.760	6.602	56.974	54.746	44.015	Data
60.5	45.363	6.647	56.982	54.742	43.998	Data
60.5	45.848	6.641	56.980	54.74	43.998	Data
61.75	45.363	6.647	56.982	54.742	43.998	Data
61.75	45.848	6.641	56.980	54.74	43.998	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	45.363	6.647	56.982	54.742	43.998	Data
63	45.848	6.641	56.980	54.74	43.998	Data
64	45.363	6.647	56.982	54.742	43.998	Data
64	45.848	6.641	56.980	54.74	43.998	Data

Table 265: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.812	6.593	56.971	55.747	44.015	Data
8	45.934	6.600	56.984	55.745	44.015	Data
30	45.397	6.526	56.991	55.746	43.991	Data
30	45.672	6.565	56.988	55.749	43.972	Data
30	45.341	6.597	56.990	55.747	43.972	Data
30	45.286	6.533	56.996	55.745	43.991	Data
30	45.346	6.615	56.978	55.748	43.998	Data
30	46.006	6.498	57.015	55.743	43.998	Data
30	45.936	6.535	57.009	55.743	43.999	Data
30	45.934	6.600	56.984	55.745	44.015	Data
30	45.812	6.593	56.971	55.747	44.015	Data
30	45.145	6.573	56.979	55.749	43.998	Data
42	45.936	6.535	57.009	55.743	43.999	Data
42	46.006	6.498	57.015	55.743	43.998	Data
43	45.936	6.535	57.009	55.743	43.999	Data
43	46.006	6.498	57.015	55.743	43.998	Data
44	45.936	6.535	57.009	55.743	43.999	Data
44	46.006	6.498	57.015	55.743	43.998	Data
45	45.936	6.535	57.009	55.743	43.999	Data
45	46.006	6.498	57.015	55.743	43.998	Data
46.5	45.812	6.593	56.971	55.747	44.015	Data
46.5	45.934	6.600	56.984	55.745	44.015	Data
48	45.341	6.597	56.990	55.747	43.972	Data
48	45.672	6.565	56.988	55.749	43.972	Data
49	45.341	6.597	56.990	55.747	43.972	Data
49	45.672	6.565	56.988	55.749	43.972	Data
50	45.341	6.597	56.990	55.747	43.972	Data
50	45.672	6.565	56.988	55.749	43.972	Data
51	45.341	6.597	56.990	55.747	43.972	Data
51	45.672	6.565	56.988	55.749	43.972	Data
52.5	45.812	6.593	56.971	55.747	44.015	Data
52.5	45.934	6.600	56.984	55.745	44.015	Data
54	45.397	6.526	56.991	55.746	43.991	Data
54	45.286	6.533	56.996	55.745	43.991	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	45.397	6.526	56.991	55.746	43.991	Data
55	45.286	6.533	56.996	55.745	43.991	Data
56	45.397	6.526	56.991	55.746	43.991	Data
56	45.286	6.533	56.996	55.745	43.991	Data
57	45.397	6.526	56.991	55.746	43.991	Data
57	45.286	6.533	56.996	55.745	43.991	Data
58.5	45.812	6.593	56.971	55.747	44.015	Data
58.5	45.934	6.600	56.984	55.745	44.015	Data
60.5	45.145	6.573	56.979	55.749	43.998	Data
60.5	45.346	6.615	56.978	55.748	43.998	Data
61.75	45.145	6.573	56.979	55.749	43.998	Data
61.75	45.346	6.615	56.978	55.748	43.998	Data
63	45.145	6.573	56.979	55.749	43.998	Data
63	45.346	6.615	56.978	55.748	43.998	Data
64	45.145	6.573	56.979	55.749	43.998	Data
64	45.346	6.615	56.978	55.748	43.998	Data

Table 266: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.338	6.605	56.978	56.75	44.015	Data
8	46.018	6.578	56.978	56.75	44.015	Data
30	45.388	6.599	56.985	56.756	43.972	Data
30	45.409	6.582	56.990	56.757	43.971	Data
30	45.031	6.522	56.988	56.739	43.991	Data
30	45.338	6.605	56.978	56.75	44.015	Data
30	46.018	6.578	56.978	56.75	44.015	Data
30	45.743	6.518	57.011	56.747	43.999	Data
30	45.776	6.585	56.977	56.75	43.999	Data
30	45.689	6.523	57.005	56.747	43.998	Data
30	45.123	6.543	56.995	56.739	43.991	Data
30	45.340	6.625	56.984	56.749	43.999	Data
42	45.743	6.518	57.011	56.747	43.999	Data
42	45.689	6.523	57.005	56.747	43.998	Data
43	45.743	6.518	57.011	56.747	43.999	Data
43	45.689	6.523	57.005	56.747	43.998	Data
44	45.743	6.518	57.011	56.747	43.999	Data
44	45.689	6.523	57.005	56.747	43.998	Data
45	45.743	6.518	57.011	56.747	43.999	Data
45	45.689	6.523	57.005	56.747	43.998	Data
46.5	45.338	6.605	56.978	56.75	44.015	Data
46.5	46.018	6.578	56.978	56.75	44.015	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	45.409	6.582	56.990	56.757	43.971	Data
48	45.388	6.599	56.985	56.756	43.972	Data
49	45.409	6.582	56.990	56.757	43.971	Data
49	45.388	6.599	56.985	56.756	43.972	Data
50	45.409	6.582	56.990	56.757	43.971	Data
50	45.388	6.599	56.985	56.756	43.972	Data
51	45.409	6.582	56.990	56.757	43.971	Data
51	45.388	6.599	56.985	56.756	43.972	Data
52.5	45.338	6.605	56.978	56.75	44.015	Data
52.5	46.018	6.578	56.978	56.75	44.015	Data
54	45.031	6.522	56.988	56.739	43.991	Data
54	45.123	6.543	56.995	56.739	43.991	Data
55	45.031	6.522	56.988	56.739	43.991	Data
55	45.123	6.543	56.995	56.739	43.991	Data
56	45.031	6.522	56.988	56.739	43.991	Data
56	45.123	6.543	56.995	56.739	43.991	Data
57	45.031	6.522	56.988	56.739	43.991	Data
57	45.123	6.543	56.995	56.739	43.991	Data
58.5	45.338	6.605	56.978	56.75	44.015	Data
58.5	46.018	6.578	56.978	56.75	44.015	Data
60.5	45.776	6.585	56.977	56.75	43.999	Data
60.5	45.340	6.625	56.984	56.749	43.999	Data
61.75	45.340	6.625	56.984	56.749	43.999	Data
61.75	45.776	6.585	56.977	56.75	43.999	Data
63	45.340	6.625	56.984	56.749	43.999	Data
63	45.776	6.585	56.977	56.75	43.999	Data
64	45.340	6.625	56.984	56.749	43.999	Data
64	45.776	6.585	56.977	56.75	43.999	Data

Table 267: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.464	6.599	56.986	57.761	44.015	Data
8	45.865	6.602	56.984	57.761	44.015	Data
30	45.536	6.600	56.995	57.749	43.971	Data
30	45.519	6.583	56.994	57.749	43.971	Data
30	45.361	6.538	56.987	57.748	43.991	Data
30	45.994	6.544	57.001	57.765	43.998	Data
30	45.551	6.616	56.976	57.754	43.999	Data
30	45.219	6.532	56.994	57.747	43.991	Data
30	45.742	6.533	57.007	57.764	43.999	Data
30	45.464	6.599	56.986	57.761	44.015	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.209	6.641	56.984	57.753	43.999	Data
30	45.865	6.602	56.984	57.761	44.015	Data
42	45.994	6.544	57.001	57.765	43.998	Data
42	45.742	6.533	57.007	57.764	43.999	Data
43	45.994	6.544	57.001	57.765	43.998	Data
43	45.742	6.533	57.007	57.764	43.999	Data
44	45.994	6.544	57.001	57.765	43.998	Data
44	45.742	6.533	57.007	57.764	43.999	Data
45	45.994	6.544	57.001	57.765	43.998	Data
45	45.742	6.533	57.007	57.764	43.999	Data
46.5	45.464	6.599	56.986	57.761	44.015	Data
46.5	45.865	6.602	56.984	57.761	44.015	Data
48	45.536	6.600	56.995	57.749	43.971	Data
48	45.519	6.583	56.994	57.749	43.971	Data
49	45.536	6.600	56.995	57.749	43.971	Data
49	45.519	6.583	56.994	57.749	43.971	Data
50	45.519	6.583	56.994	57.749	43.971	Data
50	45.536	6.600	56.995	57.749	43.971	Data
51	45.519	6.583	56.994	57.749	43.971	Data
51	45.536	6.600	56.995	57.749	43.971	Data
52.5	45.865	6.602	56.984	57.761	44.015	Data
52.5	45.464	6.599	56.986	57.761	44.015	Data
54	45.361	6.538	56.987	57.748	43.991	Data
54	45.219	6.532	56.994	57.747	43.991	Data
55	45.219	6.532	56.994	57.747	43.991	Data
55	45.361	6.538	56.987	57.748	43.991	Data
56	45.219	6.532	56.994	57.747	43.991	Data
56	45.361	6.538	56.987	57.748	43.991	Data
57	45.219	6.532	56.994	57.747	43.991	Data
57	45.361	6.538	56.987	57.748	43.991	Data
58.5	45.865	6.602	56.984	57.761	44.015	Data
58.5	45.464	6.599	56.986	57.761	44.015	Data
60.5	45.551	6.616	56.976	57.754	43.999	Data
60.5	45.209	6.641	56.984	57.753	43.999	Data
61.75	45.551	6.616	56.976	57.754	43.999	Data
61.75	45.209	6.641	56.984	57.753	43.999	Data
63	45.551	6.616	56.976	57.754	43.999	Data
63	45.209	6.641	56.984	57.753	43.999	Data
64	45.551	6.616	56.976	57.754	43.999	Data
64	45.209	6.641	56.984	57.753	43.999	Data

Table 268: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.816	6.584	56.979	58.755	44.014	Data
8	45.808	6.617	56.975	58.757	44.014	Data
8	45.460	6.613	56.982	58.742	44.004	Data
8	45.308	6.624	56.980	58.741	44.004	Data
30	45.460	6.613	56.982	58.742	44.004	Data
30	44.928	6.593	56.993	58.749	43.971	Data
30	45.534	6.545	57.039	58.746	43.992	Data
30	45.541	6.542	56.996	58.749	43.991	Data
30	45.219	6.580	57.020	58.75	44.009	Data
30	45.308	6.624	56.980	58.741	44.004	Data
30	45.199	6.550	57.020	58.751	44.009	Data
30	45.996	6.521	57.005	58.756	43.998	Data
30	45.816	6.584	56.979	58.755	44.014	Data
30	44.462	6.577	56.994	58.757	44.007	Data
30	44.841	6.578	56.989	58.75	43.991	Data
30	45.337	6.541	57.045	58.746	43.992	Data
30	44.882	6.565	56.990	58.749	43.971	Data
30	44.912	6.535	56.996	58.757	44.007	Data
30	45.819	6.546	57.000	58.755	43.998	Data
30	45.808	6.617	56.975	58.757	44.014	Data
30	45.573	6.597	56.983	58.748	44.000	Data
30	45.971	6.559	57.002	58.75	44.019	Data
30	45.003	6.632	56.985	58.749	44.000	Data
30	45.620	6.585	57.005	58.749	44.019	Data
42	44.912	6.535	56.996	58.757	44.007	Data
42	45.996	6.521	57.005	58.756	43.998	Data
42	45.819	6.546	57.000	58.755	43.998	Data
42	44.462	6.577	56.994	58.757	44.007	Data
43	44.912	6.535	56.996	58.757	44.007	Data
43	45.996	6.521	57.005	58.756	43.998	Data
43	45.819	6.546	57.000	58.755	43.998	Data
43	44.462	6.577	56.994	58.757	44.007	Data
44	44.912	6.535	56.996	58.757	44.007	Data
44	45.996	6.521	57.005	58.756	43.998	Data
44	45.819	6.546	57.000	58.755	43.998	Data
44	44.462	6.577	56.994	58.757	44.007	Data
45	44.912	6.535	56.996	58.757	44.007	Data
45	45.996	6.521	57.005	58.756	43.998	Data
45	45.819	6.546	57.000	58.755	43.998	Data
45	44.462	6.577	56.994	58.757	44.007	Data
46.5	45.460	6.613	56.982	58.742	44.004	Data
46.5	45.808	6.617	56.975	58.757	44.014	Data
46.5	45.816	6.584	56.979	58.755	44.014	Data
46.5	45.308	6.624	56.980	58.741	44.004	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	44.928	6.593	56.993	58.749	43.971	Data
48	45.534	6.545	57.039	58.746	43.992	Data
48	44.882	6.565	56.990	58.749	43.971	Data
48	45.337	6.541	57.045	58.746	43.992	Data
49	44.928	6.593	56.993	58.749	43.971	Data
49	45.534	6.545	57.039	58.746	43.992	Data
49	44.882	6.565	56.990	58.749	43.971	Data
49	45.337	6.541	57.045	58.746	43.992	Data
50	44.928	6.593	56.993	58.749	43.971	Data
50	45.534	6.545	57.039	58.746	43.992	Data
50	44.882	6.565	56.990	58.749	43.971	Data
50	45.337	6.541	57.045	58.746	43.992	Data
51	44.928	6.593	56.993	58.749	43.971	Data
51	45.534	6.545	57.039	58.746	43.992	Data
51	44.882	6.565	56.990	58.749	43.971	Data
51	45.337	6.541	57.045	58.746	43.992	Data
52.5	45.460	6.613	56.982	58.742	44.004	Data
52.5	45.808	6.617	56.975	58.757	44.014	Data
52.5	45.308	6.624	56.980	58.741	44.004	Data
52.5	45.816	6.584	56.979	58.755	44.014	Data
54	45.541	6.542	56.996	58.749	43.991	Data
54	44.841	6.578	56.989	58.75	43.991	Data
54	45.219	6.580	57.020	58.75	44.009	Data
54	45.199	6.550	57.020	58.751	44.009	Data
55	45.541	6.542	56.996	58.749	43.991	Data
55	44.841	6.578	56.989	58.75	43.991	Data
55	45.219	6.580	57.020	58.75	44.009	Data
55	45.199	6.550	57.020	58.751	44.009	Data
56	45.541	6.542	56.996	58.749	43.991	Data
56	44.841	6.578	56.989	58.75	43.991	Data
56	45.219	6.580	57.020	58.75	44.009	Data
56	45.199	6.550	57.020	58.751	44.009	Data
57	45.541	6.542	56.996	58.749	43.991	Data
57	44.841	6.578	56.989	58.75	43.991	Data
57	45.219	6.580	57.020	58.75	44.009	Data
57	45.199	6.550	57.020	58.751	44.009	Data
58.5	45.460	6.613	56.982	58.742	44.004	Data
58.5	45.808	6.617	56.975	58.757	44.014	Data
58.5	45.308	6.624	56.980	58.741	44.004	Data
58.5	45.816	6.584	56.979	58.755	44.014	Data
60.5	45.620	6.585	57.005	58.749	44.019	Data
60.5	45.003	6.632	56.985	58.749	44.000	Data
60.5	45.971	6.559	57.002	58.75	44.019	Data
60.5	45.573	6.597	56.983	58.748	44.000	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	45.003	6.632	56.985	58.749	44.000	Data
61.75	45.620	6.585	57.005	58.749	44.019	Data
61.75	45.971	6.559	57.002	58.75	44.019	Data
61.75	45.573	6.597	56.983	58.748	44.000	Data
63	45.003	6.632	56.985	58.749	44.000	Data
63	45.620	6.585	57.005	58.749	44.019	Data
63	45.971	6.559	57.002	58.75	44.019	Data
63	45.573	6.597	56.983	58.748	44.000	Data
64	45.620	6.585	57.005	58.749	44.019	Data
64	45.003	6.632	56.985	58.749	44.000	Data
64	45.971	6.559	57.002	58.75	44.019	Data
64	45.573	6.597	56.983	58.748	44.000	Data

Table 269: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.732	6.595	56.975	59.758	44.014	Data
8	45.798	6.586	56.980	59.758	44.014	Data
30	46.023	6.524	57.004	59.757	43.998	Data
30	45.027	6.533	56.990	59.749	43.992	Data
30	45.458	6.575	56.989	59.746	43.970	Data
30	45.350	6.608	56.987	59.745	43.970	Data
30	45.200	6.531	56.987	59.747	43.991	Data
30	45.482	6.650	56.977	59.755	44.002	Data
30	44.999	6.633	56.982	59.756	44.002	Data
30	45.934	6.546	57.012	59.755	43.998	Data
30	45.732	6.595	56.975	59.758	44.014	Data
30	45.798	6.586	56.980	59.758	44.014	Data
42	46.023	6.524	57.004	59.757	43.998	Data
42	45.934	6.546	57.012	59.755	43.998	Data
43	46.023	6.524	57.004	59.757	43.998	Data
43	45.934	6.546	57.012	59.755	43.998	Data
44	46.023	6.524	57.004	59.757	43.998	Data
44	45.934	6.546	57.012	59.755	43.998	Data
45	45.934	6.546	57.012	59.755	43.998	Data
45	46.023	6.524	57.004	59.757	43.998	Data
46.5	45.798	6.586	56.980	59.758	44.014	Data
46.5	45.732	6.595	56.975	59.758	44.014	Data
48	45.458	6.575	56.989	59.746	43.970	Data
48	45.350	6.608	56.987	59.745	43.970	Data
49	45.458	6.575	56.989	59.746	43.970	Data
49	45.350	6.608	56.987	59.745	43.970	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	45.458	6.575	56.989	59.746	43.970	Data
50	45.350	6.608	56.987	59.745	43.970	Data
51	45.458	6.575	56.989	59.746	43.970	Data
51	45.350	6.608	56.987	59.745	43.970	Data
52.5	45.798	6.586	56.980	59.758	44.014	Data
52.5	45.732	6.595	56.975	59.758	44.014	Data
54	45.027	6.533	56.990	59.749	43.992	Data
54	45.200	6.531	56.987	59.747	43.991	Data
55	45.027	6.533	56.990	59.749	43.992	Data
55	45.200	6.531	56.987	59.747	43.991	Data
56	45.027	6.533	56.990	59.749	43.992	Data
56	45.200	6.531	56.987	59.747	43.991	Data
57	45.027	6.533	56.990	59.749	43.992	Data
57	45.200	6.531	56.987	59.747	43.991	Data
58.5	45.798	6.586	56.980	59.758	44.014	Data
58.5	45.732	6.595	56.975	59.758	44.014	Data
60.5	45.482	6.650	56.977	59.755	44.002	Data
60.5	44.999	6.633	56.982	59.756	44.002	Data
61.75	45.482	6.650	56.977	59.755	44.002	Data
61.75	44.999	6.633	56.982	59.756	44.002	Data
63	45.482	6.650	56.977	59.755	44.002	Data
63	44.999	6.633	56.982	59.756	44.002	Data
64	45.482	6.650	56.977	59.755	44.002	Data
64	44.999	6.633	56.982	59.756	44.002	Data

Table 270: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.845	6.607	56.977	60.766	44.014	Data
8	45.697	6.600	56.981	60.768	44.013	Data
30	45.450	6.602	56.998	60.758	43.969	Data
30	45.416	6.540	56.991	60.752	43.993	Data
30	45.202	6.574	56.998	60.758	43.969	Data
30	46.166	6.523	57.002	60.763	43.998	Data
30	46.135	6.527	57.002	60.763	43.998	Data
30	45.129	6.617	56.988	60.755	44.003	Data
30	45.845	6.607	56.977	60.766	44.014	Data
30	45.697	6.600	56.981	60.768	44.013	Data
30	45.860	6.626	56.983	60.755	44.003	Data
30	44.932	6.550	56.990	60.753	43.993	Data
42	46.166	6.523	57.002	60.763	43.998	Data
42	46.135	6.527	57.002	60.763	43.998	Data

VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	46.166	6.523	57.002	60.763	43.998	Data
43	46.135	6.527	57.002	60.763	43.998	Data
44	46.166	6.523	57.002	60.763	43.998	Data
44	46.135	6.527	57.002	60.763	43.998	Data
45	46.166	6.523	57.002	60.763	43.998	Data
45	46.135	6.527	57.002	60.763	43.998	Data
46.5	45.845	6.607	56.977	60.766	44.014	Data
46.5	45.697	6.600	56.981	60.768	44.013	Data
48	45.450	6.602	56.998	60.758	43.969	Data
48	45.202	6.574	56.998	60.758	43.969	Data
49	45.450	6.602	56.998	60.758	43.969	Data
49	45.202	6.574	56.998	60.758	43.969	Data
50	45.450	6.602	56.998	60.758	43.969	Data
50	45.202	6.574	56.998	60.758	43.969	Data
51	45.450	6.602	56.998	60.758	43.969	Data
51	45.202	6.574	56.998	60.758	43.969	Data
52.5	45.845	6.607	56.977	60.766	44.014	Data
52.5	45.697	6.600	56.981	60.768	44.013	Data
54	45.416	6.540	56.991	60.752	43.993	Data
54	44.932	6.550	56.990	60.753	43.993	Data
55	45.416	6.540	56.991	60.752	43.993	Data
55	44.932	6.550	56.990	60.753	43.993	Data
56	45.416	6.540	56.991	60.752	43.993	Data
56	44.932	6.550	56.990	60.753	43.993	Data
57	45.416	6.540	56.991	60.752	43.993	Data
57	44.932	6.550	56.990	60.753	43.993	Data
58.5	45.845	6.607	56.977	60.766	44.014	Data
58.5	45.697	6.600	56.981	60.768	44.013	Data
60.5	45.129	6.617	56.988	60.755	44.003	Data
60.5	45.860	6.626	56.983	60.755	44.003	Data
61.75	45.129	6.617	56.988	60.755	44.003	Data
61.75	45.860	6.626	56.983	60.755	44.003	Data
63	45.129	6.617	56.988	60.755	44.003	Data
63	45.860	6.626	56.983	60.755	44.003	Data
64	45.129	6.617	56.988	60.755	44.003	Data
64	45.860	6.626	56.983	60.755	44.003	Data

Table 271: VG horizontal sweep: q=45 RO-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)

D.22. Horizontal VG vortex sweep at height z=44, q=25, α_{VG}=4, α_W=7, RO-tip

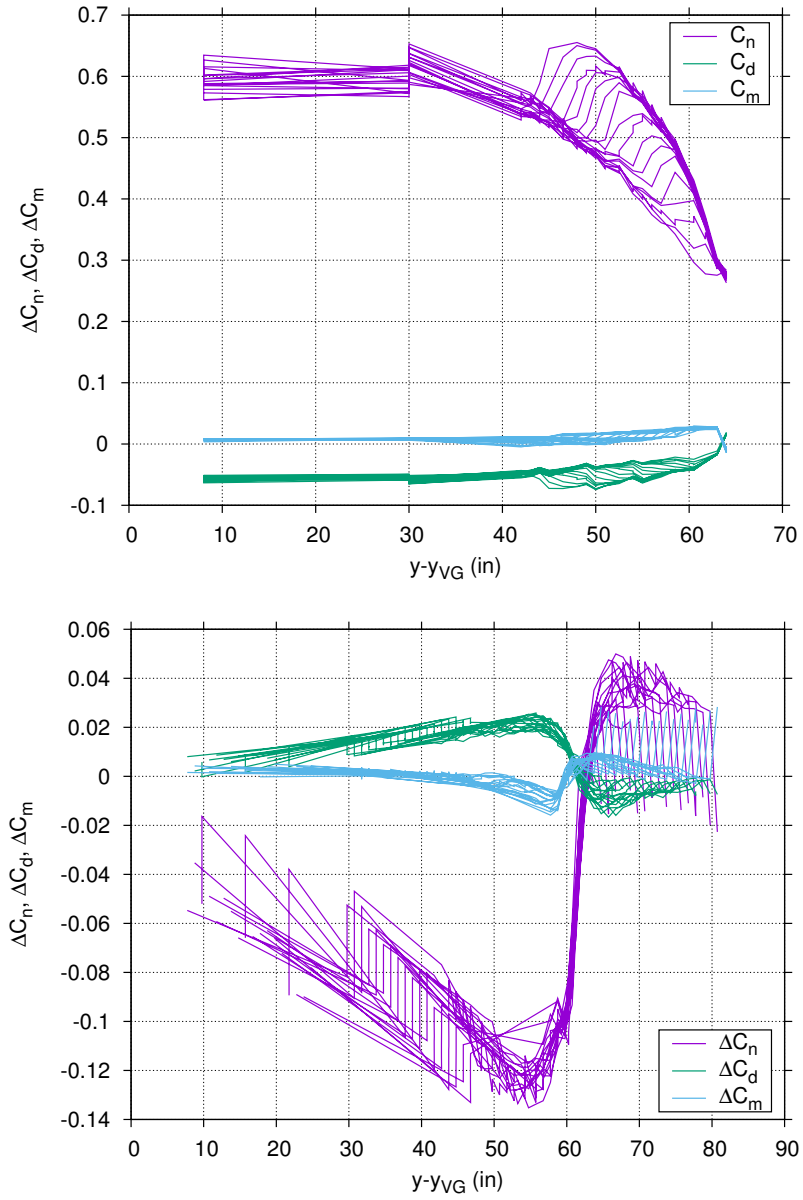

Figure 75. VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — (Data)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.681	6.620	56.975	43.76	44.013	Data
8	25.519	6.615	56.974	43.76	44.013	Data
30	24.794	6.611	56.980	43.746	43.982	Data
30	25.126	6.586	56.982	43.754	43.996	Data
30	24.585	6.621	56.984	43.749	43.982	Data
30	25.681	6.620	56.975	43.76	44.013	Data
30	24.993	6.594	56.982	43.753	43.996	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.255	6.659	56.981	43.758	44.002	Data
30	25.596	6.655	56.985	43.758	44.002	Data
30	25.519	6.615	56.974	43.76	44.013	Data
30	25.259	6.603	57.007	43.752	44.000	Data
30	25.325	6.588	57.003	43.751	44.000	Data
42	25.259	6.603	57.007	43.752	44.000	Data
42	25.325	6.588	57.003	43.751	44.000	Data
43	25.259	6.603	57.007	43.752	44.000	Data
43	25.325	6.588	57.003	43.751	44.000	Data
44	25.325	6.588	57.003	43.751	44.000	Data
44	25.259	6.603	57.007	43.752	44.000	Data
45	25.259	6.603	57.007	43.752	44.000	Data
45	25.325	6.588	57.003	43.751	44.000	Data
46.5	25.681	6.620	56.975	43.76	44.013	Data
46.5	25.519	6.615	56.974	43.76	44.013	Data
48	24.794	6.611	56.980	43.746	43.982	Data
48	24.585	6.621	56.984	43.749	43.982	Data
49	24.794	6.611	56.980	43.746	43.982	Data
49	24.585	6.621	56.984	43.749	43.982	Data
50	24.794	6.611	56.980	43.746	43.982	Data
50	24.585	6.621	56.984	43.749	43.982	Data
51	24.794	6.611	56.980	43.746	43.982	Data
51	24.585	6.621	56.984	43.749	43.982	Data
52.5	25.681	6.620	56.975	43.76	44.013	Data
52.5	25.519	6.615	56.974	43.76	44.013	Data
54	25.126	6.586	56.982	43.754	43.996	Data
54	24.993	6.594	56.982	43.753	43.996	Data
55	25.126	6.586	56.982	43.754	43.996	Data
55	24.993	6.594	56.982	43.753	43.996	Data
56	25.126	6.586	56.982	43.754	43.996	Data
56	24.993	6.594	56.982	43.753	43.996	Data
57	25.126	6.586	56.982	43.754	43.996	Data
57	24.993	6.594	56.982	43.753	43.996	Data
58.5	25.681	6.620	56.975	43.76	44.013	Data
58.5	25.519	6.615	56.974	43.76	44.013	Data
60.5	25.255	6.659	56.981	43.758	44.002	Data
60.5	25.596	6.655	56.985	43.758	44.002	Data
61.75	25.255	6.659	56.981	43.758	44.002	Data
61.75	25.596	6.655	56.985	43.758	44.002	Data
63	25.255	6.659	56.981	43.758	44.002	Data
63	25.596	6.655	56.985	43.758	44.002	Data
64	25.596	6.655	56.985	43.758	44.002	Data
64	25.255	6.659	56.981	43.758	44.002	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 272: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.937	6.616	56.973	44.744	44.012	Data
8	25.659	6.618	56.971	44.744	44.012	Data
30	24.459	6.617	56.979	44.745	43.982	Data
30	25.070	6.584	56.987	44.741	43.996	Data
30	24.682	6.616	56.983	44.743	43.981	Data
30	25.302	6.656	56.984	44.742	44.002	Data
30	25.084	6.589	56.988	44.739	43.996	Data
30	25.937	6.616	56.973	44.744	44.012	Data
30	25.018	6.585	57.002	44.741	44.000	Data
30	24.890	6.646	56.986	44.742	44.003	Data
30	25.348	6.580	57.013	44.74	43.999	Data
30	25.659	6.618	56.971	44.744	44.012	Data
42	25.018	6.585	57.002	44.741	44.000	Data
42	25.348	6.580	57.013	44.74	43.999	Data
43	25.018	6.585	57.002	44.741	44.000	Data
43	25.348	6.580	57.013	44.74	43.999	Data
44	25.018	6.585	57.002	44.741	44.000	Data
44	25.348	6.580	57.013	44.74	43.999	Data
45	25.018	6.585	57.002	44.741	44.000	Data
45	25.348	6.580	57.013	44.74	43.999	Data
46.5	25.937	6.616	56.973	44.744	44.012	Data
46.5	25.659	6.618	56.971	44.744	44.012	Data
48	24.682	6.616	56.983	44.743	43.981	Data
48	24.459	6.617	56.979	44.745	43.982	Data
49	24.682	6.616	56.983	44.743	43.981	Data
49	24.459	6.617	56.979	44.745	43.982	Data
50	24.682	6.616	56.983	44.743	43.981	Data
50	24.459	6.617	56.979	44.745	43.982	Data
51	24.682	6.616	56.983	44.743	43.981	Data
51	24.459	6.617	56.979	44.745	43.982	Data
52.5	25.937	6.616	56.973	44.744	44.012	Data
52.5	25.659	6.618	56.971	44.744	44.012	Data
54	25.070	6.584	56.987	44.741	43.996	Data
54	25.084	6.589	56.988	44.739	43.996	Data
55	25.070	6.584	56.987	44.741	43.996	Data
55	25.084	6.589	56.988	44.739	43.996	Data
56	25.070	6.584	56.987	44.741	43.996	Data
56	25.084	6.589	56.988	44.739	43.996	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	25.070	6.584	56.987	44.741	43.996	Data
57	25.084	6.589	56.988	44.739	43.996	Data
58.5	25.937	6.616	56.973	44.744	44.012	Data
58.5	25.659	6.618	56.971	44.744	44.012	Data
60.5	24.890	6.646	56.986	44.742	44.003	Data
60.5	25.302	6.656	56.984	44.742	44.002	Data
61.75	24.890	6.646	56.986	44.742	44.003	Data
61.75	25.302	6.656	56.984	44.742	44.002	Data
63	24.890	6.646	56.986	44.742	44.003	Data
63	25.302	6.656	56.984	44.742	44.002	Data
64	25.302	6.656	56.984	44.742	44.002	Data
64	24.890	6.646	56.986	44.742	44.003	Data

Table 273: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.744	6.608	56.973	45.743	44.011	Data
8	25.612	6.612	56.972	45.742	44.012	Data
30	24.458	6.609	56.987	45.744	43.982	Data
30	25.114	6.573	56.990	45.743	43.996	Data
30	24.482	6.621	56.985	45.746	43.981	Data
30	25.014	6.571	56.984	45.742	43.996	Data
30	25.744	6.608	56.973	45.743	44.011	Data
30	25.183	6.597	57.001	45.741	44.000	Data
30	25.612	6.612	56.972	45.742	44.012	Data
30	25.266	6.659	56.984	45.738	44.003	Data
30	25.311	6.660	56.988	45.738	44.002	Data
30	25.165	6.597	57.006	45.741	44.000	Data
42	25.183	6.597	57.001	45.741	44.000	Data
42	25.165	6.597	57.006	45.741	44.000	Data
43	25.183	6.597	57.001	45.741	44.000	Data
43	25.165	6.597	57.006	45.741	44.000	Data
44	25.183	6.597	57.001	45.741	44.000	Data
44	25.165	6.597	57.006	45.741	44.000	Data
45	25.165	6.597	57.006	45.741	44.000	Data
45	25.183	6.597	57.001	45.741	44.000	Data
46.5	25.612	6.612	56.972	45.742	44.012	Data
46.5	25.744	6.608	56.973	45.743	44.011	Data
48	24.482	6.621	56.985	45.746	43.981	Data
48	24.458	6.609	56.987	45.744	43.982	Data
49	24.482	6.621	56.985	45.746	43.981	Data
49	24.458	6.609	56.987	45.744	43.982	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	24.482	6.621	56.985	45.746	43.981	Data
50	24.458	6.609	56.987	45.744	43.982	Data
51	24.482	6.621	56.985	45.746	43.981	Data
51	24.458	6.609	56.987	45.744	43.982	Data
52.5	25.744	6.608	56.973	45.743	44.011	Data
52.5	25.612	6.612	56.972	45.742	44.012	Data
54	25.014	6.571	56.984	45.742	43.996	Data
54	25.114	6.573	56.990	45.743	43.996	Data
55	25.014	6.571	56.984	45.742	43.996	Data
55	25.114	6.573	56.990	45.743	43.996	Data
56	25.014	6.571	56.984	45.742	43.996	Data
56	25.114	6.573	56.990	45.743	43.996	Data
57	25.014	6.571	56.984	45.742	43.996	Data
57	25.114	6.573	56.990	45.743	43.996	Data
58.5	25.744	6.608	56.973	45.743	44.011	Data
58.5	25.612	6.612	56.972	45.742	44.012	Data
60.5	25.266	6.659	56.984	45.738	44.003	Data
60.5	25.311	6.660	56.988	45.738	44.002	Data
61.75	25.266	6.659	56.984	45.738	44.003	Data
61.75	25.311	6.660	56.988	45.738	44.002	Data
63	25.266	6.659	56.984	45.738	44.003	Data
63	25.311	6.660	56.988	45.738	44.002	Data
64	25.266	6.659	56.984	45.738	44.003	Data
64	25.311	6.660	56.988	45.738	44.002	Data

Table 274: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.460	6.624	56.978	46.746	44.010	Data
8	25.740	6.624	56.975	46.747	44.011	Data
8	25.137	6.647	56.982	46.755	44.020	Data
8	25.368	6.640	56.983	46.754	44.020	Data
30	24.713	6.615	56.984	46.747	43.982	Data
30	24.459	6.625	56.976	46.746	43.982	Data
30	25.265	6.640	56.979	46.745	44.003	Data
30	25.095	6.619	57.046	46.745	43.998	Data
30	24.564	6.589	57.002	46.742	44.009	Data
30	25.368	6.640	56.983	46.754	44.020	Data
30	25.343	6.588	56.981	46.745	43.996	Data
30	25.137	6.647	56.982	46.755	44.020	Data
30	24.854	6.580	56.991	46.746	43.995	Data
30	25.019	6.603	57.042	46.744	43.997	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.266	6.633	56.982	46.747	44.003	Data
30	25.258	6.590	57.002	46.738	43.999	Data
30	24.493	6.608	57.007	46.742	44.009	Data
30	25.080	6.597	57.020	46.746	44.001	Data
30	25.460	6.624	56.978	46.746	44.010	Data
30	25.740	6.624	56.975	46.747	44.011	Data
30	25.257	6.595	57.002	46.739	44.000	Data
30	25.201	6.607	57.010	46.745	44.001	Data
30	25.018	6.618	57.053	46.746	43.998	Data
30	25.031	6.615	57.051	46.747	43.998	Data
42	25.201	6.607	57.010	46.745	44.001	Data
42	25.258	6.590	57.002	46.738	43.999	Data
42	25.080	6.597	57.020	46.746	44.001	Data
42	25.257	6.595	57.002	46.739	44.000	Data
43	25.201	6.607	57.010	46.745	44.001	Data
43	25.258	6.590	57.002	46.738	43.999	Data
43	25.080	6.597	57.020	46.746	44.001	Data
43	25.257	6.595	57.002	46.739	44.000	Data
44	25.201	6.607	57.010	46.745	44.001	Data
44	25.258	6.590	57.002	46.738	43.999	Data
44	25.080	6.597	57.020	46.746	44.001	Data
44	25.257	6.595	57.002	46.739	44.000	Data
45	25.201	6.607	57.010	46.745	44.001	Data
45	25.258	6.590	57.002	46.738	43.999	Data
45	25.080	6.597	57.020	46.746	44.001	Data
45	25.257	6.595	57.002	46.739	44.000	Data
46.5	25.137	6.647	56.982	46.755	44.020	Data
46.5	25.460	6.624	56.978	46.746	44.010	Data
46.5	25.368	6.640	56.983	46.754	44.020	Data
46.5	25.740	6.624	56.975	46.747	44.011	Data
48	24.713	6.615	56.984	46.747	43.982	Data
48	24.459	6.625	56.976	46.746	43.982	Data
48	25.095	6.619	57.046	46.745	43.998	Data
48	25.019	6.603	57.042	46.744	43.997	Data
49	24.713	6.615	56.984	46.747	43.982	Data
49	24.459	6.625	56.976	46.746	43.982	Data
49	25.095	6.619	57.046	46.745	43.998	Data
49	25.019	6.603	57.042	46.744	43.997	Data
50	24.713	6.615	56.984	46.747	43.982	Data
50	25.095	6.619	57.046	46.745	43.998	Data
50	24.459	6.625	56.976	46.746	43.982	Data
50	25.019	6.603	57.042	46.744	43.997	Data
51	25.095	6.619	57.046	46.745	43.998	Data
51	24.713	6.615	56.984	46.747	43.982	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	24.459	6.625	56.976	46.746	43.982	Data
51	25.019	6.603	57.042	46.744	43.997	Data
52.5	25.137	6.647	56.982	46.755	44.020	Data
52.5	25.460	6.624	56.978	46.746	44.010	Data
52.5	25.740	6.624	56.975	46.747	44.011	Data
52.5	25.368	6.640	56.983	46.754	44.020	Data
54	25.343	6.588	56.981	46.745	43.996	Data
54	24.564	6.589	57.002	46.742	44.009	Data
54	24.493	6.608	57.007	46.742	44.009	Data
54	24.854	6.580	56.991	46.746	43.995	Data
55	25.343	6.588	56.981	46.745	43.996	Data
55	24.564	6.589	57.002	46.742	44.009	Data
55	24.493	6.608	57.007	46.742	44.009	Data
55	24.854	6.580	56.991	46.746	43.995	Data
56	25.343	6.588	56.981	46.745	43.996	Data
56	24.564	6.589	57.002	46.742	44.009	Data
56	24.493	6.608	57.007	46.742	44.009	Data
56	24.854	6.580	56.991	46.746	43.995	Data
57	25.343	6.588	56.981	46.745	43.996	Data
57	24.564	6.589	57.002	46.742	44.009	Data
57	24.493	6.608	57.007	46.742	44.009	Data
57	24.854	6.580	56.991	46.746	43.995	Data
58.5	25.460	6.624	56.978	46.746	44.010	Data
58.5	25.137	6.647	56.982	46.755	44.020	Data
58.5	25.740	6.624	56.975	46.747	44.011	Data
58.5	25.368	6.640	56.983	46.754	44.020	Data
60.5	25.265	6.640	56.979	46.745	44.003	Data
60.5	25.018	6.618	57.053	46.746	43.998	Data
60.5	25.031	6.615	57.051	46.747	43.998	Data
60.5	25.266	6.633	56.982	46.747	44.003	Data
61.75	25.018	6.618	57.053	46.746	43.998	Data
61.75	25.031	6.615	57.051	46.747	43.998	Data
61.75	25.266	6.633	56.982	46.747	44.003	Data
61.75	25.265	6.640	56.979	46.745	44.003	Data
63	25.018	6.618	57.053	46.746	43.998	Data
63	25.031	6.615	57.051	46.747	43.998	Data
63	25.266	6.633	56.982	46.747	44.003	Data
63	25.265	6.640	56.979	46.745	44.003	Data
64	25.018	6.618	57.053	46.746	43.998	Data
64	25.265	6.640	56.979	46.745	44.003	Data
64	25.031	6.615	57.051	46.747	43.998	Data
64	25.266	6.633	56.982	46.747	44.003	Data

Table 275: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.566	6.623	56.975	47.739	44.010	Data
8	25.359	6.610	56.981	47.738	44.010	Data
30	24.495	6.616	56.986	47.742	43.983	Data
30	24.558	6.625	56.980	47.742	43.983	Data
30	25.271	6.589	56.985	47.754	43.996	Data
30	25.298	6.654	56.984	47.752	44.003	Data
30	25.339	6.644	56.988	47.751	44.003	Data
30	25.156	6.584	57.005	47.748	43.999	Data
30	25.221	6.603	56.987	47.754	43.995	Data
30	25.566	6.623	56.975	47.739	44.010	Data
30	25.194	6.589	56.997	47.747	44.000	Data
30	25.359	6.610	56.981	47.738	44.010	Data
42	25.156	6.584	57.005	47.748	43.999	Data
42	25.194	6.589	56.997	47.747	44.000	Data
43	25.156	6.584	57.005	47.748	43.999	Data
43	25.194	6.589	56.997	47.747	44.000	Data
44	25.156	6.584	57.005	47.748	43.999	Data
44	25.194	6.589	56.997	47.747	44.000	Data
45	25.156	6.584	57.005	47.748	43.999	Data
45	25.194	6.589	56.997	47.747	44.000	Data
46.5	25.359	6.610	56.981	47.738	44.010	Data
46.5	25.566	6.623	56.975	47.739	44.010	Data
48	24.495	6.616	56.986	47.742	43.983	Data
48	24.558	6.625	56.980	47.742	43.983	Data
49	24.495	6.616	56.986	47.742	43.983	Data
49	24.558	6.625	56.980	47.742	43.983	Data
50	24.495	6.616	56.986	47.742	43.983	Data
50	24.558	6.625	56.980	47.742	43.983	Data
51	24.495	6.616	56.986	47.742	43.983	Data
51	24.558	6.625	56.980	47.742	43.983	Data
52.5	25.359	6.610	56.981	47.738	44.010	Data
52.5	25.566	6.623	56.975	47.739	44.010	Data
54	25.271	6.589	56.985	47.754	43.996	Data
54	25.221	6.603	56.987	47.754	43.995	Data
55	25.271	6.589	56.985	47.754	43.996	Data
55	25.221	6.603	56.987	47.754	43.995	Data
56	25.271	6.589	56.985	47.754	43.996	Data
56	25.221	6.603	56.987	47.754	43.995	Data
57	25.271	6.589	56.985	47.754	43.996	Data
57	25.221	6.603	56.987	47.754	43.995	Data
58.5	25.566	6.623	56.975	47.739	44.010	Data
58.5	25.359	6.610	56.981	47.738	44.010	Data
60.5	25.298	6.654	56.984	47.752	44.003	Data
60.5	25.339	6.644	56.988	47.751	44.003	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	25.298	6.654	56.984	47.752	44.003	Data
61.75	25.339	6.644	56.988	47.751	44.003	Data
63	25.298	6.654	56.984	47.752	44.003	Data
63	25.339	6.644	56.988	47.751	44.003	Data
64	25.298	6.654	56.984	47.752	44.003	Data
64	25.339	6.644	56.988	47.751	44.003	Data

Table 276: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.651	6.627	56.973	48.748	44.009	Data
8	25.592	6.615	56.975	48.748	44.009	Data
30	24.376	6.621	56.978	48.742	43.983	Data
30	24.294	6.628	56.984	48.743	43.984	Data
30	25.651	6.627	56.973	48.748	44.009	Data
30	25.253	6.649	56.987	48.759	44.003	Data
30	24.990	6.592	56.988	48.745	43.996	Data
30	25.024	6.581	56.980	48.744	43.995	Data
30	25.303	6.656	56.989	48.757	44.003	Data
30	25.270	6.583	57.001	48.755	43.999	Data
30	25.592	6.615	56.975	48.748	44.009	Data
30	25.192	6.582	57.001	48.756	43.999	Data
42	25.270	6.583	57.001	48.755	43.999	Data
42	25.192	6.582	57.001	48.756	43.999	Data
43	25.270	6.583	57.001	48.755	43.999	Data
43	25.192	6.582	57.001	48.756	43.999	Data
44	25.270	6.583	57.001	48.755	43.999	Data
44	25.192	6.582	57.001	48.756	43.999	Data
45	25.270	6.583	57.001	48.755	43.999	Data
45	25.192	6.582	57.001	48.756	43.999	Data
46.5	25.651	6.627	56.973	48.748	44.009	Data
46.5	25.592	6.615	56.975	48.748	44.009	Data
48	24.294	6.628	56.984	48.743	43.984	Data
48	24.376	6.621	56.978	48.742	43.983	Data
49	24.376	6.621	56.978	48.742	43.983	Data
49	24.294	6.628	56.984	48.743	43.984	Data
50	24.376	6.621	56.978	48.742	43.983	Data
50	24.294	6.628	56.984	48.743	43.984	Data
51	24.376	6.621	56.978	48.742	43.983	Data
51	24.294	6.628	56.984	48.743	43.984	Data
52.5	25.651	6.627	56.973	48.748	44.009	Data
52.5	25.592	6.615	56.975	48.748	44.009	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	24.990	6.592	56.988	48.745	43.996	Data
54	25.024	6.581	56.980	48.744	43.995	Data
55	24.990	6.592	56.988	48.745	43.996	Data
55	25.024	6.581	56.980	48.744	43.995	Data
56	24.990	6.592	56.988	48.745	43.996	Data
56	25.024	6.581	56.980	48.744	43.995	Data
57	24.990	6.592	56.988	48.745	43.996	Data
57	25.024	6.581	56.980	48.744	43.995	Data
58.5	25.592	6.615	56.975	48.748	44.009	Data
58.5	25.651	6.627	56.973	48.748	44.009	Data
60.5	25.303	6.656	56.989	48.757	44.003	Data
60.5	25.253	6.649	56.987	48.759	44.003	Data
61.75	25.303	6.656	56.989	48.757	44.003	Data
61.75	25.253	6.649	56.987	48.759	44.003	Data
63	25.303	6.656	56.989	48.757	44.003	Data
63	25.253	6.649	56.987	48.759	44.003	Data
64	25.253	6.649	56.987	48.759	44.003	Data
64	25.303	6.656	56.989	48.757	44.003	Data

Table 277: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.448	6.631	56.985	49.747	44.008	Data
8	25.619	6.613	56.983	49.746	44.007	Data
30	24.565	6.616	56.983	49.742	43.984	Data
30	25.260	6.598	56.985	49.751	43.995	Data
30	24.562	6.607	56.986	49.744	43.984	Data
30	25.619	6.613	56.983	49.746	44.007	Data
30	25.448	6.631	56.985	49.747	44.008	Data
30	25.226	6.582	56.989	49.75	43.995	Data
30	25.305	6.651	56.983	49.748	44.003	Data
30	25.233	6.594	57.001	49.751	44.000	Data
30	25.327	6.577	57.005	49.75	43.999	Data
30	25.170	6.653	56.990	49.748	44.003	Data
42	25.233	6.594	57.001	49.751	44.000	Data
42	25.327	6.577	57.005	49.75	43.999	Data
43	25.233	6.594	57.001	49.751	44.000	Data
43	25.327	6.577	57.005	49.75	43.999	Data
44	25.233	6.594	57.001	49.751	44.000	Data
44	25.327	6.577	57.005	49.75	43.999	Data
45	25.233	6.594	57.001	49.751	44.000	Data
45	25.327	6.577	57.005	49.75	43.999	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	25.619	6.613	56.983	49.746	44.007	Data
46.5	25.448	6.631	56.985	49.747	44.008	Data
48	24.562	6.607	56.986	49.744	43.984	Data
48	24.565	6.616	56.983	49.742	43.984	Data
49	24.562	6.607	56.986	49.744	43.984	Data
49	24.565	6.616	56.983	49.742	43.984	Data
50	24.562	6.607	56.986	49.744	43.984	Data
50	24.565	6.616	56.983	49.742	43.984	Data
51	24.562	6.607	56.986	49.744	43.984	Data
51	24.565	6.616	56.983	49.742	43.984	Data
52.5	25.619	6.613	56.983	49.746	44.007	Data
52.5	25.448	6.631	56.985	49.747	44.008	Data
54	25.226	6.582	56.989	49.75	43.995	Data
54	25.260	6.598	56.985	49.751	43.995	Data
55	25.226	6.582	56.989	49.75	43.995	Data
55	25.260	6.598	56.985	49.751	43.995	Data
56	25.226	6.582	56.989	49.75	43.995	Data
56	25.260	6.598	56.985	49.751	43.995	Data
57	25.226	6.582	56.989	49.75	43.995	Data
57	25.260	6.598	56.985	49.751	43.995	Data
58.5	25.448	6.631	56.985	49.747	44.008	Data
58.5	25.619	6.613	56.983	49.746	44.007	Data
60.5	25.305	6.651	56.983	49.748	44.003	Data
60.5	25.170	6.653	56.990	49.748	44.003	Data
61.75	25.305	6.651	56.983	49.748	44.003	Data
61.75	25.170	6.653	56.990	49.748	44.003	Data
63	25.305	6.651	56.983	49.748	44.003	Data
63	25.170	6.653	56.990	49.748	44.003	Data
64	25.305	6.651	56.983	49.748	44.003	Data
64	25.170	6.653	56.990	49.748	44.003	Data

Table 278: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.639	6.624	56.979	50.746	44.007	Data
8	25.594	6.582	56.977	50.747	44.007	Data
30	24.481	6.616	56.978	50.75	43.985	Data
30	25.127	6.583	56.987	50.745	43.995	Data
30	25.215	6.588	56.987	50.743	43.995	Data
30	25.388	6.646	56.983	50.752	44.003	Data
30	25.412	6.658	56.984	50.751	44.002	Data
30	25.639	6.624	56.979	50.746	44.007	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	24.629	6.613	56.982	50.75	43.984	Data
30	25.047	6.580	57.004	50.751	43.999	Data
30	25.594	6.582	56.977	50.747	44.007	Data
30	25.119	6.590	57.010	50.751	43.998	Data
42	25.119	6.590	57.010	50.751	43.998	Data
42	25.047	6.580	57.004	50.751	43.999	Data
43	25.119	6.590	57.010	50.751	43.998	Data
43	25.047	6.580	57.004	50.751	43.999	Data
44	25.119	6.590	57.010	50.751	43.998	Data
44	25.047	6.580	57.004	50.751	43.999	Data
45	25.119	6.590	57.010	50.751	43.998	Data
45	25.047	6.580	57.004	50.751	43.999	Data
46.5	25.594	6.582	56.977	50.747	44.007	Data
46.5	25.639	6.624	56.979	50.746	44.007	Data
48	24.629	6.613	56.982	50.75	43.984	Data
48	24.481	6.616	56.978	50.75	43.985	Data
49	24.629	6.613	56.982	50.75	43.984	Data
49	24.481	6.616	56.978	50.75	43.985	Data
50	24.629	6.613	56.982	50.75	43.984	Data
50	24.481	6.616	56.978	50.75	43.985	Data
51	24.629	6.613	56.982	50.75	43.984	Data
51	24.481	6.616	56.978	50.75	43.985	Data
52.5	25.594	6.582	56.977	50.747	44.007	Data
52.5	25.639	6.624	56.979	50.746	44.007	Data
54	25.127	6.583	56.987	50.745	43.995	Data
54	25.215	6.588	56.987	50.743	43.995	Data
55	25.127	6.583	56.987	50.745	43.995	Data
55	25.215	6.588	56.987	50.743	43.995	Data
56	25.127	6.583	56.987	50.745	43.995	Data
56	25.215	6.588	56.987	50.743	43.995	Data
57	25.127	6.583	56.987	50.745	43.995	Data
57	25.215	6.588	56.987	50.743	43.995	Data
58.5	25.594	6.582	56.977	50.747	44.007	Data
58.5	25.639	6.624	56.979	50.746	44.007	Data
60.5	25.412	6.658	56.984	50.751	44.002	Data
60.5	25.388	6.646	56.983	50.752	44.003	Data
61.75	25.412	6.658	56.984	50.751	44.002	Data
61.75	25.388	6.646	56.983	50.752	44.003	Data
63	25.412	6.658	56.984	50.751	44.002	Data
63	25.388	6.646	56.983	50.752	44.003	Data
64	25.412	6.658	56.984	50.751	44.002	Data
64	25.388	6.646	56.983	50.752	44.003	Data

Table 279: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.376	6.611	56.979	51.752	44.006	Data
8	25.483	6.618	56.977	51.751	44.006	Data
30	25.255	6.598	56.981	51.743	43.995	Data
30	25.279	6.586	56.979	51.743	43.995	Data
30	25.415	6.658	56.982	51.747	44.003	Data
30	24.466	6.621	56.980	51.752	43.986	Data
30	25.176	6.565	57.011	51.752	43.999	Data
30	25.490	6.594	57.005	51.752	43.998	Data
30	25.483	6.618	56.977	51.751	44.006	Data
30	25.376	6.611	56.979	51.752	44.006	Data
30	25.320	6.655	56.987	51.748	44.003	Data
30	24.434	6.614	56.980	51.752	43.986	Data
42	25.490	6.594	57.005	51.752	43.998	Data
42	25.176	6.565	57.011	51.752	43.999	Data
43	25.490	6.594	57.005	51.752	43.998	Data
43	25.176	6.565	57.011	51.752	43.999	Data
44	25.490	6.594	57.005	51.752	43.998	Data
44	25.176	6.565	57.011	51.752	43.999	Data
45	25.490	6.594	57.005	51.752	43.998	Data
45	25.176	6.565	57.011	51.752	43.999	Data
46.5	25.376	6.611	56.979	51.752	44.006	Data
46.5	25.483	6.618	56.977	51.751	44.006	Data
48	24.466	6.621	56.980	51.752	43.986	Data
48	24.434	6.614	56.980	51.752	43.986	Data
49	24.466	6.621	56.980	51.752	43.986	Data
49	24.434	6.614	56.980	51.752	43.986	Data
50	24.466	6.621	56.980	51.752	43.986	Data
50	24.434	6.614	56.980	51.752	43.986	Data
51	24.466	6.621	56.980	51.752	43.986	Data
51	24.434	6.614	56.980	51.752	43.986	Data
52.5	25.376	6.611	56.979	51.752	44.006	Data
52.5	25.483	6.618	56.977	51.751	44.006	Data
54	25.279	6.586	56.979	51.743	43.995	Data
54	25.255	6.598	56.981	51.743	43.995	Data
55	25.279	6.586	56.979	51.743	43.995	Data
55	25.255	6.598	56.981	51.743	43.995	Data
56	25.279	6.586	56.979	51.743	43.995	Data
56	25.255	6.598	56.981	51.743	43.995	Data
57	25.279	6.586	56.979	51.743	43.995	Data
57	25.255	6.598	56.981	51.743	43.995	Data
58.5	25.376	6.611	56.979	51.752	44.006	Data
58.5	25.483	6.618	56.977	51.751	44.006	Data
60.5	25.415	6.658	56.982	51.747	44.003	Data
60.5	25.320	6.655	56.987	51.748	44.003	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	25.415	6.658	56.982	51.747	44.003	Data
61.75	25.320	6.655	56.987	51.748	44.003	Data
63	25.415	6.658	56.982	51.747	44.003	Data
63	25.320	6.655	56.987	51.748	44.003	Data
64	25.415	6.658	56.982	51.747	44.003	Data
64	25.320	6.655	56.987	51.748	44.003	Data

Table 280: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.670	6.625	56.979	52.752	44.004	Data
8	25.741	6.629	56.983	52.752	44.005	Data
8	25.300	6.633	56.984	52.754	44.018	Data
8	25.180	6.668	56.984	52.756	44.019	Data
30	24.564	6.624	56.982	52.749	43.986	Data
30	25.191	6.629	57.053	52.748	44.007	Data
30	25.198	6.612	57.049	52.748	44.007	Data
30	24.488	6.612	56.976	52.748	43.986	Data
30	24.763	6.619	57.004	52.748	44.009	Data
30	25.180	6.668	56.984	52.756	44.019	Data
30	25.094	6.585	56.983	52.748	43.995	Data
30	25.484	6.654	57.004	52.754	44.003	Data
30	25.741	6.629	56.983	52.752	44.005	Data
30	24.949	6.606	56.999	52.752	43.993	Data
30	25.645	6.654	56.992	52.751	44.003	Data
30	25.229	6.638	57.006	52.754	44.003	Data
30	25.330	6.599	57.011	52.755	43.998	Data
30	25.080	6.576	56.981	52.747	43.996	Data
30	25.670	6.625	56.979	52.752	44.004	Data
30	24.475	6.594	57.004	52.748	44.009	Data
30	24.830	6.589	57.009	52.753	43.999	Data
30	25.300	6.633	56.984	52.754	44.018	Data
30	25.418	6.654	56.982	52.752	44.003	Data
30	24.934	6.597	57.000	52.752	43.992	Data
42	24.949	6.606	56.999	52.752	43.993	Data
42	24.934	6.597	57.000	52.752	43.992	Data
42	25.330	6.599	57.011	52.755	43.998	Data
42	24.830	6.589	57.009	52.753	43.999	Data
43	24.949	6.606	56.999	52.752	43.993	Data
43	24.934	6.597	57.000	52.752	43.992	Data
43	25.330	6.599	57.011	52.755	43.998	Data
43	24.830	6.589	57.009	52.753	43.999	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	24.949	6.606	56.999	52.752	43.993	Data
44	24.934	6.597	57.000	52.752	43.992	Data
44	25.330	6.599	57.011	52.755	43.998	Data
44	24.830	6.589	57.009	52.753	43.999	Data
45	24.949	6.606	56.999	52.752	43.993	Data
45	24.934	6.597	57.000	52.752	43.992	Data
45	25.330	6.599	57.011	52.755	43.998	Data
45	24.830	6.589	57.009	52.753	43.999	Data
46.5	25.180	6.668	56.984	52.756	44.019	Data
46.5	25.741	6.629	56.983	52.752	44.005	Data
46.5	25.300	6.633	56.984	52.754	44.018	Data
46.5	25.670	6.625	56.979	52.752	44.004	Data
48	25.191	6.629	57.053	52.748	44.007	Data
48	24.488	6.612	56.976	52.748	43.986	Data
48	24.564	6.624	56.982	52.749	43.986	Data
48	25.198	6.612	57.049	52.748	44.007	Data
49	25.191	6.629	57.053	52.748	44.007	Data
49	24.488	6.612	56.976	52.748	43.986	Data
49	24.564	6.624	56.982	52.749	43.986	Data
49	25.198	6.612	57.049	52.748	44.007	Data
50	25.191	6.629	57.053	52.748	44.007	Data
50	24.488	6.612	56.976	52.748	43.986	Data
50	24.564	6.624	56.982	52.749	43.986	Data
50	25.198	6.612	57.049	52.748	44.007	Data
51	25.191	6.629	57.053	52.748	44.007	Data
51	24.488	6.612	56.976	52.748	43.986	Data
51	25.198	6.612	57.049	52.748	44.007	Data
51	24.564	6.624	56.982	52.749	43.986	Data
52.5	25.180	6.668	56.984	52.756	44.019	Data
52.5	25.741	6.629	56.983	52.752	44.005	Data
52.5	25.670	6.625	56.979	52.752	44.004	Data
52.5	25.300	6.633	56.984	52.754	44.018	Data
54	25.094	6.585	56.983	52.748	43.995	Data
54	24.475	6.594	57.004	52.748	44.009	Data
54	25.080	6.576	56.981	52.747	43.996	Data
54	24.763	6.619	57.004	52.748	44.009	Data
55	25.094	6.585	56.983	52.748	43.995	Data
55	24.475	6.594	57.004	52.748	44.009	Data
55	25.080	6.576	56.981	52.747	43.996	Data
55	24.763	6.619	57.004	52.748	44.009	Data
56	25.094	6.585	56.983	52.748	43.995	Data
56	24.475	6.594	57.004	52.748	44.009	Data
56	25.080	6.576	56.981	52.747	43.996	Data
56	24.763	6.619	57.004	52.748	44.009	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	25.094	6.585	56.983	52.748	43.995	Data
57	24.475	6.594	57.004	52.748	44.009	Data
57	25.080	6.576	56.981	52.747	43.996	Data
57	24.763	6.619	57.004	52.748	44.009	Data
58.5	25.180	6.668	56.984	52.756	44.019	Data
58.5	25.300	6.633	56.984	52.754	44.018	Data
58.5	25.741	6.629	56.983	52.752	44.005	Data
58.5	25.670	6.625	56.979	52.752	44.004	Data
60.5	25.229	6.638	57.006	52.754	44.003	Data
60.5	25.645	6.654	56.992	52.751	44.003	Data
60.5	25.484	6.654	57.004	52.754	44.003	Data
60.5	25.418	6.654	56.982	52.752	44.003	Data
61.75	25.645	6.654	56.992	52.751	44.003	Data
61.75	25.229	6.638	57.006	52.754	44.003	Data
61.75	25.484	6.654	57.004	52.754	44.003	Data
61.75	25.418	6.654	56.982	52.752	44.003	Data
63	25.645	6.654	56.992	52.751	44.003	Data
63	25.484	6.654	57.004	52.754	44.003	Data
63	25.229	6.638	57.006	52.754	44.003	Data
63	25.418	6.654	56.982	52.752	44.003	Data
64	25.645	6.654	56.992	52.751	44.003	Data
64	25.418	6.654	56.982	52.752	44.003	Data
64	25.229	6.638	57.006	52.754	44.003	Data
64	25.484	6.654	57.004	52.754	44.003	Data

Table 281: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.871	6.629	56.983	53.747	44.003	Data
8	25.694	6.628	56.986	53.745	44.003	Data
30	24.532	6.612	56.983	53.749	43.986	Data
30	25.871	6.629	56.983	53.747	44.003	Data
30	24.717	6.611	56.977	53.75	43.986	Data
30	25.241	6.590	56.984	53.752	43.995	Data
30	25.238	6.574	56.982	53.752	43.995	Data
30	25.313	6.589	57.006	53.749	43.998	Data
30	25.258	6.600	57.008	53.748	43.998	Data
30	25.108	6.643	56.982	53.744	44.003	Data
30	25.694	6.628	56.986	53.745	44.003	Data
30	25.411	6.653	56.983	53.745	44.003	Data
42	25.313	6.589	57.006	53.749	43.998	Data
42	25.258	6.600	57.008	53.748	43.998	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	25.313	6.589	57.006	53.749	43.998	Data
43	25.258	6.600	57.008	53.748	43.998	Data
44	25.313	6.589	57.006	53.749	43.998	Data
44	25.258	6.600	57.008	53.748	43.998	Data
45	25.313	6.589	57.006	53.749	43.998	Data
45	25.258	6.600	57.008	53.748	43.998	Data
46.5	25.694	6.628	56.986	53.745	44.003	Data
46.5	25.871	6.629	56.983	53.747	44.003	Data
48	24.532	6.612	56.983	53.749	43.986	Data
48	24.717	6.611	56.977	53.75	43.986	Data
49	24.532	6.612	56.983	53.749	43.986	Data
49	24.717	6.611	56.977	53.75	43.986	Data
50	24.532	6.612	56.983	53.749	43.986	Data
50	24.717	6.611	56.977	53.75	43.986	Data
51	24.532	6.612	56.983	53.749	43.986	Data
51	24.717	6.611	56.977	53.75	43.986	Data
52.5	25.694	6.628	56.986	53.745	44.003	Data
52.5	25.871	6.629	56.983	53.747	44.003	Data
54	25.238	6.574	56.982	53.752	43.995	Data
54	25.241	6.590	56.984	53.752	43.995	Data
55	25.238	6.574	56.982	53.752	43.995	Data
55	25.241	6.590	56.984	53.752	43.995	Data
56	25.238	6.574	56.982	53.752	43.995	Data
56	25.241	6.590	56.984	53.752	43.995	Data
57	25.238	6.574	56.982	53.752	43.995	Data
57	25.241	6.590	56.984	53.752	43.995	Data
58.5	25.694	6.628	56.986	53.745	44.003	Data
58.5	25.871	6.629	56.983	53.747	44.003	Data
60.5	25.108	6.643	56.982	53.744	44.003	Data
60.5	25.411	6.653	56.983	53.745	44.003	Data
61.75	25.108	6.643	56.982	53.744	44.003	Data
61.75	25.411	6.653	56.983	53.745	44.003	Data
63	25.108	6.643	56.982	53.744	44.003	Data
63	25.411	6.653	56.983	53.745	44.003	Data
64	25.108	6.643	56.982	53.744	44.003	Data
64	25.411	6.653	56.983	53.745	44.003	Data

Table 282: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.625	6.622	56.990	54.75	44.002	Data
8	25.671	6.612	56.984	54.75	44.002	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	24.741	6.614	56.979	54.749	43.987	Data
30	25.077	6.566	56.985	54.747	43.994	Data
30	24.575	6.626	56.974	54.748	43.987	Data
30	25.186	6.601	56.981	54.748	43.994	Data
30	25.671	6.612	56.984	54.75	44.002	Data
30	25.565	6.655	56.984	54.74	44.003	Data
30	25.372	6.572	56.998	54.746	43.998	Data
30	25.204	6.595	57.004	54.746	43.997	Data
30	25.420	6.651	56.986	54.741	44.003	Data
30	25.625	6.622	56.990	54.75	44.002	Data
42	25.204	6.595	57.004	54.746	43.997	Data
42	25.372	6.572	56.998	54.746	43.998	Data
43	25.204	6.595	57.004	54.746	43.997	Data
43	25.372	6.572	56.998	54.746	43.998	Data
44	25.204	6.595	57.004	54.746	43.997	Data
44	25.372	6.572	56.998	54.746	43.998	Data
45	25.204	6.595	57.004	54.746	43.997	Data
45	25.372	6.572	56.998	54.746	43.998	Data
46.5	25.671	6.612	56.984	54.75	44.002	Data
46.5	25.625	6.622	56.990	54.75	44.002	Data
48	24.575	6.626	56.974	54.748	43.987	Data
48	24.741	6.614	56.979	54.749	43.987	Data
49	24.575	6.626	56.974	54.748	43.987	Data
49	24.741	6.614	56.979	54.749	43.987	Data
50	24.575	6.626	56.974	54.748	43.987	Data
50	24.741	6.614	56.979	54.749	43.987	Data
51	24.575	6.626	56.974	54.748	43.987	Data
51	24.741	6.614	56.979	54.749	43.987	Data
52.5	25.671	6.612	56.984	54.75	44.002	Data
52.5	25.625	6.622	56.990	54.75	44.002	Data
54	25.186	6.601	56.981	54.748	43.994	Data
54	25.077	6.566	56.985	54.747	43.994	Data
55	25.186	6.601	56.981	54.748	43.994	Data
55	25.077	6.566	56.985	54.747	43.994	Data
56	25.186	6.601	56.981	54.748	43.994	Data
56	25.077	6.566	56.985	54.747	43.994	Data
57	25.186	6.601	56.981	54.748	43.994	Data
57	25.077	6.566	56.985	54.747	43.994	Data
58.5	25.671	6.612	56.984	54.75	44.002	Data
58.5	25.625	6.622	56.990	54.75	44.002	Data
60.5	25.420	6.651	56.986	54.741	44.003	Data
60.5	25.565	6.655	56.984	54.74	44.003	Data
61.75	25.420	6.651	56.986	54.741	44.003	Data
61.75	25.565	6.655	56.984	54.74	44.003	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	25.420	6.651	56.986	54.741	44.003	Data
63	25.565	6.655	56.984	54.74	44.003	Data
64	25.420	6.651	56.986	54.741	44.003	Data
64	25.565	6.655	56.984	54.74	44.003	Data

Table 283: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.648	6.613	56.981	55.749	44.001	Data
8	25.627	6.613	56.986	55.748	44.000	Data
30	24.531	6.620	56.981	55.743	43.988	Data
30	24.509	6.637	56.976	55.744	43.988	Data
30	25.193	6.593	56.983	55.747	43.995	Data
30	25.327	6.601	56.978	55.747	43.995	Data
30	25.648	6.613	56.981	55.749	44.001	Data
30	25.118	6.676	56.985	55.747	44.004	Data
30	25.359	6.598	57.000	55.746	43.998	Data
30	25.627	6.613	56.986	55.748	44.000	Data
30	25.320	6.575	57.003	55.747	43.997	Data
30	25.727	6.642	56.981	55.746	44.004	Data
42	25.359	6.598	57.000	55.746	43.998	Data
42	25.320	6.575	57.003	55.747	43.997	Data
43	25.359	6.598	57.000	55.746	43.998	Data
43	25.320	6.575	57.003	55.747	43.997	Data
44	25.359	6.598	57.000	55.746	43.998	Data
44	25.320	6.575	57.003	55.747	43.997	Data
45	25.359	6.598	57.000	55.746	43.998	Data
45	25.320	6.575	57.003	55.747	43.997	Data
46.5	25.648	6.613	56.981	55.749	44.001	Data
46.5	25.627	6.613	56.986	55.748	44.000	Data
48	24.509	6.637	56.976	55.744	43.988	Data
48	24.531	6.620	56.981	55.743	43.988	Data
49	24.509	6.637	56.976	55.744	43.988	Data
49	24.531	6.620	56.981	55.743	43.988	Data
50	24.509	6.637	56.976	55.744	43.988	Data
50	24.531	6.620	56.981	55.743	43.988	Data
51	24.509	6.637	56.976	55.744	43.988	Data
51	24.531	6.620	56.981	55.743	43.988	Data
52.5	25.627	6.613	56.986	55.748	44.000	Data
52.5	25.648	6.613	56.981	55.749	44.001	Data
54	25.327	6.601	56.978	55.747	43.995	Data
54	25.193	6.593	56.983	55.747	43.995	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	25.327	6.601	56.978	55.747	43.995	Data
55	25.193	6.593	56.983	55.747	43.995	Data
56	25.327	6.601	56.978	55.747	43.995	Data
56	25.193	6.593	56.983	55.747	43.995	Data
57	25.327	6.601	56.978	55.747	43.995	Data
57	25.193	6.593	56.983	55.747	43.995	Data
58.5	25.627	6.613	56.986	55.748	44.000	Data
58.5	25.648	6.613	56.981	55.749	44.001	Data
60.5	25.118	6.676	56.985	55.747	44.004	Data
60.5	25.727	6.642	56.981	55.746	44.004	Data
61.75	25.118	6.676	56.985	55.747	44.004	Data
61.75	25.727	6.642	56.981	55.746	44.004	Data
63	25.118	6.676	56.985	55.747	44.004	Data
63	25.727	6.642	56.981	55.746	44.004	Data
64	25.118	6.676	56.985	55.747	44.004	Data
64	25.727	6.642	56.981	55.746	44.004	Data

Table 284: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.917	6.626	56.990	56.75	43.999	Data
8	25.772	6.616	56.994	56.749	44.000	Data
30	24.612	6.619	56.981	56.74	43.989	Data
30	24.553	6.620	56.977	56.741	43.988	Data
30	25.917	6.626	56.990	56.75	43.999	Data
30	25.375	6.588	56.985	56.754	43.995	Data
30	25.379	6.656	56.987	56.749	44.003	Data
30	25.460	6.577	57.011	56.749	43.998	Data
30	25.772	6.616	56.994	56.749	44.000	Data
30	25.267	6.585	56.987	56.753	43.995	Data
30	25.348	6.590	57.008	56.753	43.997	Data
30	25.751	6.651	56.985	56.75	44.003	Data
42	25.460	6.577	57.011	56.749	43.998	Data
42	25.348	6.590	57.008	56.753	43.997	Data
43	25.460	6.577	57.011	56.749	43.998	Data
43	25.348	6.590	57.008	56.753	43.997	Data
44	25.460	6.577	57.011	56.749	43.998	Data
44	25.348	6.590	57.008	56.753	43.997	Data
45	25.460	6.577	57.011	56.749	43.998	Data
45	25.348	6.590	57.008	56.753	43.997	Data
46.5	25.917	6.626	56.990	56.75	43.999	Data
46.5	25.772	6.616	56.994	56.749	44.000	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	24.612	6.619	56.981	56.74	43.989	Data
48	24.553	6.620	56.977	56.741	43.988	Data
49	24.612	6.619	56.981	56.74	43.989	Data
49	24.553	6.620	56.977	56.741	43.988	Data
50	24.612	6.619	56.981	56.74	43.989	Data
50	24.553	6.620	56.977	56.741	43.988	Data
51	24.612	6.619	56.981	56.74	43.989	Data
51	24.553	6.620	56.977	56.741	43.988	Data
52.5	25.772	6.616	56.994	56.749	44.000	Data
52.5	25.917	6.626	56.990	56.75	43.999	Data
54	25.267	6.585	56.987	56.753	43.995	Data
54	25.375	6.588	56.985	56.754	43.995	Data
55	25.267	6.585	56.987	56.753	43.995	Data
55	25.375	6.588	56.985	56.754	43.995	Data
56	25.267	6.585	56.987	56.753	43.995	Data
56	25.375	6.588	56.985	56.754	43.995	Data
57	25.267	6.585	56.987	56.753	43.995	Data
57	25.375	6.588	56.985	56.754	43.995	Data
58.5	25.772	6.616	56.994	56.749	44.000	Data
58.5	25.917	6.626	56.990	56.75	43.999	Data
60.5	25.751	6.651	56.985	56.75	44.003	Data
60.5	25.379	6.656	56.987	56.749	44.003	Data
61.75	25.751	6.651	56.985	56.75	44.003	Data
61.75	25.379	6.656	56.987	56.749	44.003	Data
63	25.751	6.651	56.985	56.75	44.003	Data
63	25.379	6.656	56.987	56.749	44.003	Data
64	25.379	6.656	56.987	56.749	44.003	Data
64	25.751	6.651	56.985	56.75	44.003	Data

Table 285: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.837	6.616	56.991	57.751	43.998	Data
8	25.837	6.634	56.985	57.75	43.997	Data
30	24.752	6.621	56.986	57.749	43.989	Data
30	24.636	6.617	56.983	57.75	43.989	Data
30	25.294	6.578	56.990	57.755	43.994	Data
30	25.409	6.583	57.000	57.762	43.998	Data
30	25.293	6.593	56.983	57.756	43.994	Data
30	25.837	6.634	56.985	57.75	43.997	Data
30	25.590	6.650	56.989	57.764	44.003	Data
30	25.837	6.616	56.991	57.751	43.998	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.063	6.576	57.007	57.76	43.997	Data
30	25.427	6.672	56.986	57.764	44.003	Data
42	25.409	6.583	57.000	57.762	43.998	Data
42	25.063	6.576	57.007	57.76	43.997	Data
43	25.409	6.583	57.000	57.762	43.998	Data
43	25.063	6.576	57.007	57.76	43.997	Data
44	25.409	6.583	57.000	57.762	43.998	Data
44	25.063	6.576	57.007	57.76	43.997	Data
45	25.409	6.583	57.000	57.762	43.998	Data
45	25.063	6.576	57.007	57.76	43.997	Data
46.5	25.837	6.616	56.991	57.751	43.998	Data
46.5	25.837	6.634	56.985	57.75	43.997	Data
48	24.752	6.621	56.986	57.749	43.989	Data
48	24.636	6.617	56.983	57.75	43.989	Data
49	24.752	6.621	56.986	57.749	43.989	Data
49	24.636	6.617	56.983	57.75	43.989	Data
50	24.752	6.621	56.986	57.749	43.989	Data
50	24.636	6.617	56.983	57.75	43.989	Data
51	24.752	6.621	56.986	57.749	43.989	Data
51	24.636	6.617	56.983	57.75	43.989	Data
52.5	25.837	6.634	56.985	57.75	43.997	Data
52.5	25.837	6.616	56.991	57.751	43.998	Data
54	25.293	6.593	56.983	57.756	43.994	Data
54	25.294	6.578	56.990	57.755	43.994	Data
55	25.293	6.593	56.983	57.756	43.994	Data
55	25.294	6.578	56.990	57.755	43.994	Data
56	25.293	6.593	56.983	57.756	43.994	Data
56	25.294	6.578	56.990	57.755	43.994	Data
57	25.294	6.578	56.990	57.755	43.994	Data
57	25.293	6.593	56.983	57.756	43.994	Data
58.5	25.837	6.634	56.985	57.75	43.997	Data
58.5	25.837	6.616	56.991	57.751	43.998	Data
60.5	25.590	6.650	56.989	57.764	44.003	Data
60.5	25.427	6.672	56.986	57.764	44.003	Data
61.75	25.590	6.650	56.989	57.764	44.003	Data
61.75	25.427	6.672	56.986	57.764	44.003	Data
63	25.590	6.650	56.989	57.764	44.003	Data
63	25.427	6.672	56.986	57.764	44.003	Data
64	25.590	6.650	56.989	57.764	44.003	Data
64	25.427	6.672	56.986	57.764	44.003	Data

Table 286: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.604	6.630	56.983	58.745	43.995	Data
8	25.688	6.610	56.972	58.745	43.995	Data
8	25.327	6.662	56.988	58.743	44.019	Data
8	25.307	6.626	56.989	58.743	44.019	Data
30	25.292	6.614	57.043	58.749	43.998	Data
30	25.373	6.582	56.986	58.748	43.993	Data
30	25.422	6.603	57.045	58.75	43.998	Data
30	24.746	6.617	56.979	58.749	43.989	Data
30	24.765	6.614	56.985	58.748	43.989	Data
30	25.470	6.647	57.002	58.753	44.031	Data
30	25.524	6.643	57.005	58.753	44.031	Data
30	25.307	6.626	56.989	58.743	44.019	Data
30	24.497	6.599	56.999	58.748	44.002	Data
30	25.215	6.596	56.989	58.748	43.994	Data
30	25.451	6.601	57.007	58.765	43.997	Data
30	25.243	6.601	57.002	58.748	44.006	Data
30	25.759	6.647	56.983	58.751	44.004	Data
30	25.327	6.662	56.988	58.743	44.019	Data
30	25.513	6.659	56.986	58.752	44.004	Data
30	25.688	6.610	56.972	58.745	43.995	Data
30	25.041	6.595	57.008	58.765	43.998	Data
30	25.604	6.630	56.983	58.745	43.995	Data
30	24.505	6.589	57.001	58.747	44.002	Data
30	24.880	6.597	57.001	58.748	44.006	Data
42	25.451	6.601	57.007	58.765	43.997	Data
42	25.243	6.601	57.002	58.748	44.006	Data
42	25.041	6.595	57.008	58.765	43.998	Data
42	24.880	6.597	57.001	58.748	44.006	Data
43	25.451	6.601	57.007	58.765	43.997	Data
43	25.243	6.601	57.002	58.748	44.006	Data
43	25.041	6.595	57.008	58.765	43.998	Data
43	24.880	6.597	57.001	58.748	44.006	Data
44	25.451	6.601	57.007	58.765	43.997	Data
44	25.243	6.601	57.002	58.748	44.006	Data
44	24.880	6.597	57.001	58.748	44.006	Data
44	25.041	6.595	57.008	58.765	43.998	Data
45	25.451	6.601	57.007	58.765	43.997	Data
45	25.243	6.601	57.002	58.748	44.006	Data
45	24.880	6.597	57.001	58.748	44.006	Data
45	25.041	6.595	57.008	58.765	43.998	Data
46.5	25.307	6.626	56.989	58.743	44.019	Data
46.5	25.604	6.630	56.983	58.745	43.995	Data
46.5	25.327	6.662	56.988	58.743	44.019	Data
46.5	25.688	6.610	56.972	58.745	43.995	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	25.292	6.614	57.043	58.749	43.998	Data
48	24.746	6.617	56.979	58.749	43.989	Data
48	25.422	6.603	57.045	58.75	43.998	Data
48	24.765	6.614	56.985	58.748	43.989	Data
49	25.292	6.614	57.043	58.749	43.998	Data
49	24.746	6.617	56.979	58.749	43.989	Data
49	25.422	6.603	57.045	58.75	43.998	Data
49	24.765	6.614	56.985	58.748	43.989	Data
50	25.292	6.614	57.043	58.749	43.998	Data
50	24.746	6.617	56.979	58.749	43.989	Data
50	25.422	6.603	57.045	58.75	43.998	Data
50	24.765	6.614	56.985	58.748	43.989	Data
51	25.292	6.614	57.043	58.749	43.998	Data
51	25.422	6.603	57.045	58.75	43.998	Data
51	24.746	6.617	56.979	58.749	43.989	Data
51	24.765	6.614	56.985	58.748	43.989	Data
52.5	25.604	6.630	56.983	58.745	43.995	Data
52.5	25.307	6.626	56.989	58.743	44.019	Data
52.5	25.688	6.610	56.972	58.745	43.995	Data
52.5	25.327	6.662	56.988	58.743	44.019	Data
54	25.373	6.582	56.986	58.748	43.993	Data
54	25.215	6.596	56.989	58.748	43.994	Data
54	24.497	6.599	56.999	58.748	44.002	Data
54	24.505	6.589	57.001	58.747	44.002	Data
55	25.373	6.582	56.986	58.748	43.993	Data
55	25.215	6.596	56.989	58.748	43.994	Data
55	24.497	6.599	56.999	58.748	44.002	Data
55	24.505	6.589	57.001	58.747	44.002	Data
56	25.373	6.582	56.986	58.748	43.993	Data
56	25.215	6.596	56.989	58.748	43.994	Data
56	24.497	6.599	56.999	58.748	44.002	Data
56	24.505	6.589	57.001	58.747	44.002	Data
57	25.373	6.582	56.986	58.748	43.993	Data
57	25.215	6.596	56.989	58.748	43.994	Data
57	24.497	6.599	56.999	58.748	44.002	Data
57	24.505	6.589	57.001	58.747	44.002	Data
58.5	25.688	6.610	56.972	58.745	43.995	Data
58.5	25.604	6.630	56.983	58.745	43.995	Data
58.5	25.307	6.626	56.989	58.743	44.019	Data
58.5	25.327	6.662	56.988	58.743	44.019	Data
60.5	25.470	6.647	57.002	58.753	44.031	Data
60.5	25.513	6.659	56.986	58.752	44.004	Data
60.5	25.759	6.647	56.983	58.751	44.004	Data
60.5	25.524	6.643	57.005	58.753	44.031	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	25.470	6.647	57.002	58.753	44.031	Data
61.75	25.513	6.659	56.986	58.752	44.004	Data
61.75	25.759	6.647	56.983	58.751	44.004	Data
61.75	25.524	6.643	57.005	58.753	44.031	Data
63	25.470	6.647	57.002	58.753	44.031	Data
63	25.513	6.659	56.986	58.752	44.004	Data
63	25.759	6.647	56.983	58.751	44.004	Data
63	25.524	6.643	57.005	58.753	44.031	Data
64	25.470	6.647	57.002	58.753	44.031	Data
64	25.513	6.659	56.986	58.752	44.004	Data
64	25.524	6.643	57.005	58.753	44.031	Data
64	25.759	6.647	56.983	58.751	44.004	Data

Table 287: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.590	6.631	56.964	59.749	43.993	Data
8	25.679	6.623	56.963	59.751	43.994	Data
30	24.715	6.621	56.975	59.751	43.990	Data
30	24.734	6.611	56.978	59.752	43.990	Data
30	25.404	6.601	56.993	59.751	43.993	Data
30	25.270	6.600	56.985	59.752	43.994	Data
30	25.590	6.631	56.964	59.749	43.993	Data
30	25.414	6.633	56.985	59.752	44.004	Data
30	25.679	6.623	56.963	59.751	43.994	Data
30	25.207	6.651	56.976	59.753	44.004	Data
30	25.686	6.588	57.008	59.76	43.997	Data
30	25.282	6.595	57.006	59.76	43.998	Data
42	25.686	6.588	57.008	59.76	43.997	Data
42	25.282	6.595	57.006	59.76	43.998	Data
43	25.686	6.588	57.008	59.76	43.997	Data
43	25.282	6.595	57.006	59.76	43.998	Data
44	25.686	6.588	57.008	59.76	43.997	Data
44	25.282	6.595	57.006	59.76	43.998	Data
45	25.686	6.588	57.008	59.76	43.997	Data
45	25.282	6.595	57.006	59.76	43.998	Data
46.5	25.679	6.623	56.963	59.751	43.994	Data
46.5	25.590	6.631	56.964	59.749	43.993	Data
48	24.734	6.611	56.978	59.752	43.990	Data
48	24.715	6.621	56.975	59.751	43.990	Data
49	24.734	6.611	56.978	59.752	43.990	Data
49	24.715	6.621	56.975	59.751	43.990	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	24.734	6.611	56.978	59.752	43.990	Data
50	24.715	6.621	56.975	59.751	43.990	Data
51	24.734	6.611	56.978	59.752	43.990	Data
51	24.715	6.621	56.975	59.751	43.990	Data
52.5	25.679	6.623	56.963	59.751	43.994	Data
52.5	25.590	6.631	56.964	59.749	43.993	Data
54	25.404	6.601	56.993	59.751	43.993	Data
54	25.270	6.600	56.985	59.752	43.994	Data
55	25.404	6.601	56.993	59.751	43.993	Data
55	25.270	6.600	56.985	59.752	43.994	Data
56	25.404	6.601	56.993	59.751	43.993	Data
56	25.270	6.600	56.985	59.752	43.994	Data
57	25.404	6.601	56.993	59.751	43.993	Data
57	25.270	6.600	56.985	59.752	43.994	Data
58.5	25.679	6.623	56.963	59.751	43.994	Data
58.5	25.590	6.631	56.964	59.749	43.993	Data
60.5	25.414	6.633	56.985	59.752	44.004	Data
60.5	25.207	6.651	56.976	59.753	44.004	Data
61.75	25.414	6.633	56.985	59.752	44.004	Data
61.75	25.207	6.651	56.976	59.753	44.004	Data
63	25.414	6.633	56.985	59.752	44.004	Data
63	25.207	6.651	56.976	59.753	44.004	Data
64	25.414	6.633	56.985	59.752	44.004	Data
64	25.207	6.651	56.976	59.753	44.004	Data

Table 288: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.646	6.614	56.961	60.76	43.991	Data
8	25.494	6.630	56.956	60.76	43.992	Data
30	25.248	6.631	56.980	60.753	43.991	Data
30	25.408	6.626	56.973	60.753	43.991	Data
30	25.275	6.583	56.984	60.751	43.994	Data
30	25.287	6.596	56.985	60.752	43.994	Data
30	25.482	6.656	56.985	60.754	44.004	Data
30	25.646	6.614	56.961	60.76	43.991	Data
30	25.358	6.662	56.983	60.755	44.004	Data
30	25.289	6.594	57.007	60.764	43.998	Data
30	25.152	6.589	57.002	60.763	43.998	Data
30	25.494	6.630	56.956	60.76	43.992	Data
42	25.289	6.594	57.007	60.764	43.998	Data
42	25.152	6.589	57.002	60.763	43.998	Data

VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	25.289	6.594	57.007	60.764	43.998	Data
43	25.152	6.589	57.002	60.763	43.998	Data
44	25.289	6.594	57.007	60.764	43.998	Data
44	25.152	6.589	57.002	60.763	43.998	Data
45	25.289	6.594	57.007	60.764	43.998	Data
45	25.152	6.589	57.002	60.763	43.998	Data
46.5	25.494	6.630	56.956	60.76	43.992	Data
46.5	25.646	6.614	56.961	60.76	43.991	Data
48	25.248	6.631	56.980	60.753	43.991	Data
48	25.408	6.626	56.973	60.753	43.991	Data
49	25.248	6.631	56.980	60.753	43.991	Data
49	25.408	6.626	56.973	60.753	43.991	Data
50	25.248	6.631	56.980	60.753	43.991	Data
50	25.408	6.626	56.973	60.753	43.991	Data
51	25.248	6.631	56.980	60.753	43.991	Data
51	25.408	6.626	56.973	60.753	43.991	Data
52.5	25.494	6.630	56.956	60.76	43.992	Data
52.5	25.646	6.614	56.961	60.76	43.991	Data
54	25.275	6.583	56.984	60.751	43.994	Data
54	25.287	6.596	56.985	60.752	43.994	Data
55	25.275	6.583	56.984	60.751	43.994	Data
55	25.287	6.596	56.985	60.752	43.994	Data
56	25.275	6.583	56.984	60.751	43.994	Data
56	25.287	6.596	56.985	60.752	43.994	Data
57	25.275	6.583	56.984	60.751	43.994	Data
57	25.287	6.596	56.985	60.752	43.994	Data
58.5	25.494	6.630	56.956	60.76	43.992	Data
58.5	25.646	6.614	56.961	60.76	43.991	Data
60.5	25.482	6.656	56.985	60.754	44.004	Data
60.5	25.358	6.662	56.983	60.755	44.004	Data
61.75	25.482	6.656	56.985	60.754	44.004	Data
61.75	25.358	6.662	56.983	60.755	44.004	Data
63	25.482	6.656	56.985	60.754	44.004	Data
63	25.358	6.662	56.983	60.755	44.004	Data
64	25.358	6.662	56.983	60.755	44.004	Data
64	25.482	6.656	56.985	60.754	44.004	Data

Table 289: VG horizontal sweep: q=25 RO-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)

D.23. Horizontal VG vortex sweep at height z=44, q=70, α_{VG}=4, α_W=7, SQ-tip

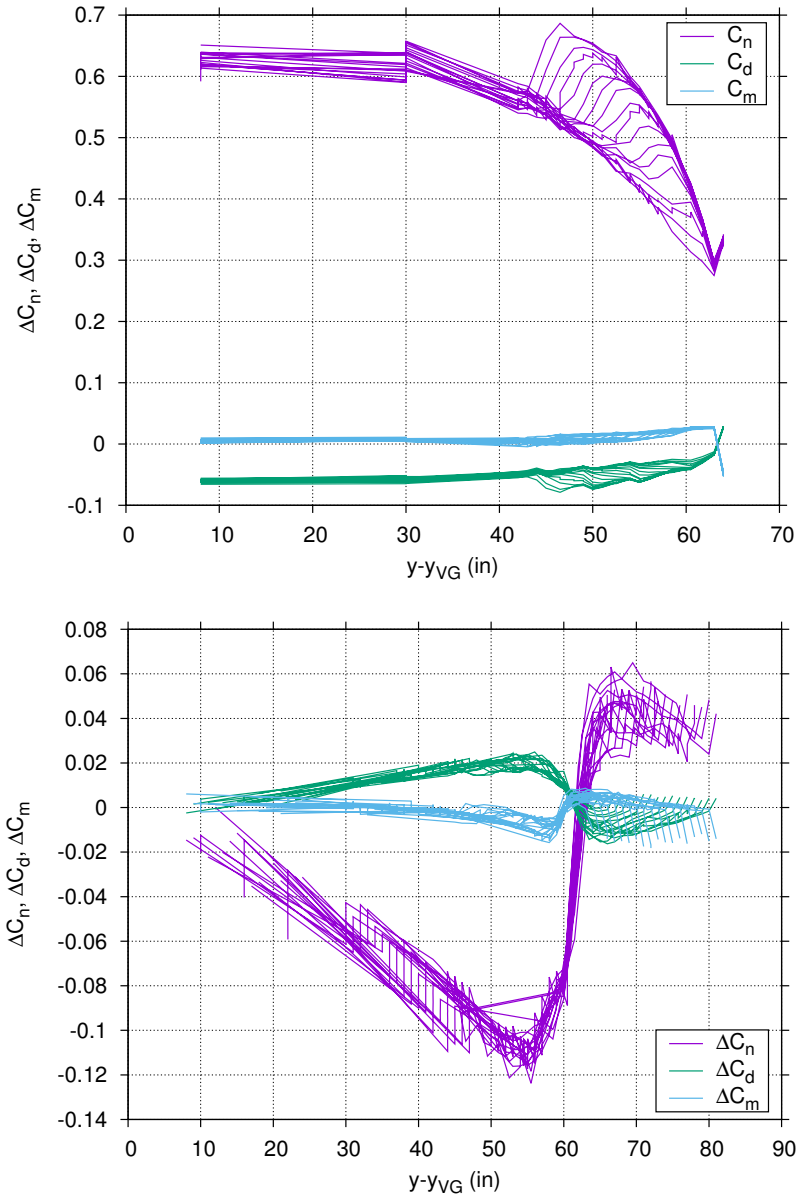

Figure 76. VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — (Data)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.005	6.608	56.979	43.497	44.019	Data
8	69.799	6.552	56.977	43.499	44.019	Data
30	68.899	6.490	57.062	43.503	43.999	Data
30	70.005	6.608	56.979	43.497	44.019	Data
30	69.640	6.566	57.040	43.493	43.997	Data
30	69.462	6.484	57.048	43.507	44.004	Data
30	69.906	6.540	57.035	43.493	43.997	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.497	6.497	57.044	43.502	43.999	Data
30	68.310	6.527	57.064	43.505	43.998	Data
30	69.860	6.497	57.047	43.5	43.999	Data
30	69.799	6.552	56.977	43.499	44.019	Data
30	68.528	6.511	57.056	43.507	44.003	Data
42	69.462	6.484	57.048	43.507	44.004	Data
42	68.528	6.511	57.056	43.507	44.003	Data
43	69.462	6.484	57.048	43.507	44.004	Data
43	68.528	6.511	57.056	43.507	44.003	Data
44	69.462	6.484	57.048	43.507	44.004	Data
44	68.528	6.511	57.056	43.507	44.003	Data
45	69.462	6.484	57.048	43.507	44.004	Data
45	68.528	6.511	57.056	43.507	44.003	Data
46.5	70.005	6.608	56.979	43.497	44.019	Data
46.5	69.799	6.552	56.977	43.499	44.019	Data
48	68.899	6.490	57.062	43.503	43.999	Data
48	68.310	6.527	57.064	43.505	43.998	Data
49	68.899	6.490	57.062	43.503	43.999	Data
49	68.310	6.527	57.064	43.505	43.998	Data
50	68.899	6.490	57.062	43.503	43.999	Data
50	68.310	6.527	57.064	43.505	43.998	Data
51	68.899	6.490	57.062	43.503	43.999	Data
51	68.310	6.527	57.064	43.505	43.998	Data
52.5	70.005	6.608	56.979	43.497	44.019	Data
52.5	69.799	6.552	56.977	43.499	44.019	Data
54	69.640	6.566	57.040	43.493	43.997	Data
54	69.906	6.540	57.035	43.493	43.997	Data
55	69.640	6.566	57.040	43.493	43.997	Data
55	69.906	6.540	57.035	43.493	43.997	Data
56	69.640	6.566	57.040	43.493	43.997	Data
56	69.906	6.540	57.035	43.493	43.997	Data
57	69.640	6.566	57.040	43.493	43.997	Data
57	69.906	6.540	57.035	43.493	43.997	Data
58.5	70.005	6.608	56.979	43.497	44.019	Data
58.5	69.799	6.552	56.977	43.499	44.019	Data
60.5	70.497	6.497	57.044	43.502	43.999	Data
60.5	69.860	6.497	57.047	43.5	43.999	Data
61.75	70.497	6.497	57.044	43.502	43.999	Data
61.75	69.860	6.497	57.047	43.5	43.999	Data
63	70.497	6.497	57.044	43.502	43.999	Data
63	69.860	6.497	57.047	43.5	43.999	Data
64	70.497	6.497	57.044	43.502	43.999	Data
64	69.860	6.497	57.047	43.5	43.999	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 290: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.692	6.652	56.972	44.497	44.015	Data
8	70.132	6.612	56.973	44.497	44.014	Data
30	68.570	6.454	57.062	44.498	43.998	Data
30	70.132	6.612	56.973	44.497	44.014	Data
30	68.864	6.518	57.063	44.498	43.999	Data
30	69.633	6.520	57.045	44.499	43.997	Data
30	69.156	6.571	57.049	44.502	44.004	Data
30	69.549	6.515	57.050	44.495	43.999	Data
30	68.753	6.512	57.051	44.501	44.003	Data
30	69.580	6.513	57.042	44.5	43.997	Data
30	69.960	6.467	57.047	44.495	43.999	Data
30	70.692	6.652	56.972	44.497	44.015	Data
42	69.156	6.571	57.049	44.502	44.004	Data
42	68.753	6.512	57.051	44.501	44.003	Data
43	69.156	6.571	57.049	44.502	44.004	Data
43	68.753	6.512	57.051	44.501	44.003	Data
44	69.156	6.571	57.049	44.502	44.004	Data
44	68.753	6.512	57.051	44.501	44.003	Data
45	69.156	6.571	57.049	44.502	44.004	Data
45	68.753	6.512	57.051	44.501	44.003	Data
46.5	70.132	6.612	56.973	44.497	44.014	Data
46.5	70.692	6.652	56.972	44.497	44.015	Data
48	68.570	6.454	57.062	44.498	43.998	Data
48	68.864	6.518	57.063	44.498	43.999	Data
49	68.570	6.454	57.062	44.498	43.998	Data
49	68.864	6.518	57.063	44.498	43.999	Data
50	68.570	6.454	57.062	44.498	43.998	Data
50	68.864	6.518	57.063	44.498	43.999	Data
51	68.570	6.454	57.062	44.498	43.998	Data
51	68.864	6.518	57.063	44.498	43.999	Data
52.5	70.692	6.652	56.972	44.497	44.015	Data
52.5	70.132	6.612	56.973	44.497	44.014	Data
54	69.633	6.520	57.045	44.499	43.997	Data
54	69.580	6.513	57.042	44.5	43.997	Data
55	69.633	6.520	57.045	44.499	43.997	Data
55	69.580	6.513	57.042	44.5	43.997	Data
56	69.633	6.520	57.045	44.499	43.997	Data
56	69.580	6.513	57.042	44.5	43.997	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	69.633	6.520	57.045	44.499	43.997	Data
57	69.580	6.513	57.042	44.5	43.997	Data
58.5	70.692	6.652	56.972	44.497	44.015	Data
58.5	70.132	6.612	56.973	44.497	44.014	Data
60.5	69.960	6.467	57.047	44.495	43.999	Data
60.5	69.549	6.515	57.050	44.495	43.999	Data
61.75	69.960	6.467	57.047	44.495	43.999	Data
61.75	69.549	6.515	57.050	44.495	43.999	Data
63	69.960	6.467	57.047	44.495	43.999	Data
63	69.549	6.515	57.050	44.495	43.999	Data
64	69.960	6.467	57.047	44.495	43.999	Data
64	69.549	6.515	57.050	44.495	43.999	Data

Table 291: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.796	6.560	56.989	45.495	44.007	Data
8	70.213	6.576	56.991	45.496	44.007	Data
30	69.497	6.524	57.045	45.493	43.997	Data
30	69.084	6.506	57.038	45.493	43.997	Data
30	70.796	6.560	56.989	45.495	44.007	Data
30	70.213	6.576	56.991	45.496	44.007	Data
30	68.559	6.502	57.066	45.484	43.999	Data
30	70.064	6.531	57.041	45.491	43.998	Data
30	69.329	6.582	57.052	45.495	44.004	Data
30	68.383	6.501	57.073	45.483	43.998	Data
30	69.435	6.492	57.041	45.492	43.998	Data
30	68.878	6.511	57.051	45.493	44.003	Data
42	69.329	6.582	57.052	45.495	44.004	Data
42	68.878	6.511	57.051	45.493	44.003	Data
43	69.329	6.582	57.052	45.495	44.004	Data
43	68.878	6.511	57.051	45.493	44.003	Data
44	69.329	6.582	57.052	45.495	44.004	Data
44	68.878	6.511	57.051	45.493	44.003	Data
45	69.329	6.582	57.052	45.495	44.004	Data
45	68.878	6.511	57.051	45.493	44.003	Data
46.5	70.213	6.576	56.991	45.496	44.007	Data
46.5	70.796	6.560	56.989	45.495	44.007	Data
48	68.559	6.502	57.066	45.484	43.999	Data
48	68.383	6.501	57.073	45.483	43.998	Data
49	68.559	6.502	57.066	45.484	43.999	Data
49	68.383	6.501	57.073	45.483	43.998	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	68.559	6.502	57.066	45.484	43.999	Data
50	68.383	6.501	57.073	45.483	43.998	Data
51	68.559	6.502	57.066	45.484	43.999	Data
51	68.383	6.501	57.073	45.483	43.998	Data
52.5	70.213	6.576	56.991	45.496	44.007	Data
52.5	70.796	6.560	56.989	45.495	44.007	Data
54	69.497	6.524	57.045	45.493	43.997	Data
54	69.084	6.506	57.038	45.493	43.997	Data
55	69.084	6.506	57.038	45.493	43.997	Data
55	69.497	6.524	57.045	45.493	43.997	Data
56	69.084	6.506	57.038	45.493	43.997	Data
56	69.497	6.524	57.045	45.493	43.997	Data
57	69.084	6.506	57.038	45.493	43.997	Data
57	69.497	6.524	57.045	45.493	43.997	Data
58.5	70.796	6.560	56.989	45.495	44.007	Data
58.5	70.213	6.576	56.991	45.496	44.007	Data
60.5	69.435	6.492	57.041	45.492	43.998	Data
60.5	70.064	6.531	57.041	45.491	43.998	Data
61.75	69.435	6.492	57.041	45.492	43.998	Data
61.75	70.064	6.531	57.041	45.491	43.998	Data
63	69.435	6.492	57.041	45.492	43.998	Data
63	70.064	6.531	57.041	45.491	43.998	Data
64	70.064	6.531	57.041	45.491	43.998	Data
64	69.435	6.492	57.041	45.492	43.998	Data

Table 292: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.586	6.573	56.972	46.508	43.980	Data
8	69.708	6.584	56.981	46.506	43.979	Data
8	70.753	6.601	57.002	46.494	44.003	Data
8	70.334	6.577	57.003	46.496	44.003	Data
30	69.481	6.463	57.042	46.492	43.998	Data
30	69.777	6.527	57.041	46.497	44.003	Data
30	69.615	6.543	57.039	46.504	44.009	Data
30	69.586	6.573	56.972	46.508	43.980	Data
30	69.430	6.543	57.044	46.502	43.997	Data
30	70.753	6.601	57.002	46.494	44.003	Data
30	70.254	6.509	57.038	46.505	44.009	Data
30	70.833	6.564	57.026	46.494	43.992	Data
30	69.739	6.535	57.038	46.492	43.998	Data
30	71.268	6.515	57.031	46.495	43.993	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.356	6.543	57.081	46.488	44.001	Data
30	69.601	6.537	57.019	46.498	44.008	Data
30	70.334	6.577	57.003	46.496	44.003	Data
30	69.708	6.584	56.981	46.506	43.979	Data
30	68.643	6.513	57.070	46.485	43.999	Data
30	69.552	6.473	57.078	46.488	44.001	Data
30	69.415	6.510	57.073	46.487	43.998	Data
30	69.547	6.505	57.042	46.502	43.997	Data
30	69.787	6.531	57.018	46.498	44.008	Data
30	68.455	6.566	57.045	46.498	44.003	Data
42	69.777	6.527	57.041	46.497	44.003	Data
42	69.601	6.537	57.019	46.498	44.008	Data
42	69.787	6.531	57.018	46.498	44.008	Data
42	68.455	6.566	57.045	46.498	44.003	Data
43	69.777	6.527	57.041	46.497	44.003	Data
43	69.601	6.537	57.019	46.498	44.008	Data
43	69.787	6.531	57.018	46.498	44.008	Data
43	68.455	6.566	57.045	46.498	44.003	Data
44	69.777	6.527	57.041	46.497	44.003	Data
44	69.601	6.537	57.019	46.498	44.008	Data
44	69.787	6.531	57.018	46.498	44.008	Data
44	68.455	6.566	57.045	46.498	44.003	Data
45	69.777	6.527	57.041	46.497	44.003	Data
45	69.601	6.537	57.019	46.498	44.008	Data
45	69.787	6.531	57.018	46.498	44.008	Data
45	68.455	6.566	57.045	46.498	44.003	Data
46.5	70.334	6.577	57.003	46.496	44.003	Data
46.5	69.586	6.573	56.972	46.508	43.980	Data
46.5	69.708	6.584	56.981	46.506	43.979	Data
46.5	70.753	6.601	57.002	46.494	44.003	Data
48	69.552	6.473	57.078	46.488	44.001	Data
48	69.356	6.543	57.081	46.488	44.001	Data
48	69.415	6.510	57.073	46.487	43.998	Data
48	68.643	6.513	57.070	46.485	43.999	Data
49	69.552	6.473	57.078	46.488	44.001	Data
49	69.356	6.543	57.081	46.488	44.001	Data
49	69.415	6.510	57.073	46.487	43.998	Data
49	68.643	6.513	57.070	46.485	43.999	Data
50	69.552	6.473	57.078	46.488	44.001	Data
50	69.356	6.543	57.081	46.488	44.001	Data
50	69.415	6.510	57.073	46.487	43.998	Data
50	68.643	6.513	57.070	46.485	43.999	Data
51	69.552	6.473	57.078	46.488	44.001	Data
51	69.356	6.543	57.081	46.488	44.001	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	69.415	6.510	57.073	46.487	43.998	Data
51	68.643	6.513	57.070	46.485	43.999	Data
52.5	70.334	6.577	57.003	46.496	44.003	Data
52.5	69.586	6.573	56.972	46.508	43.980	Data
52.5	69.708	6.584	56.981	46.506	43.979	Data
52.5	70.753	6.601	57.002	46.494	44.003	Data
54	69.615	6.543	57.039	46.504	44.009	Data
54	69.430	6.543	57.044	46.502	43.997	Data
54	70.254	6.509	57.038	46.505	44.009	Data
54	69.547	6.505	57.042	46.502	43.997	Data
55	69.615	6.543	57.039	46.504	44.009	Data
55	69.430	6.543	57.044	46.502	43.997	Data
55	70.254	6.509	57.038	46.505	44.009	Data
55	69.547	6.505	57.042	46.502	43.997	Data
56	69.615	6.543	57.039	46.504	44.009	Data
56	69.430	6.543	57.044	46.502	43.997	Data
56	70.254	6.509	57.038	46.505	44.009	Data
56	69.547	6.505	57.042	46.502	43.997	Data
57	69.615	6.543	57.039	46.504	44.009	Data
57	70.254	6.509	57.038	46.505	44.009	Data
57	69.430	6.543	57.044	46.502	43.997	Data
57	69.547	6.505	57.042	46.502	43.997	Data
58.5	70.334	6.577	57.003	46.496	44.003	Data
58.5	69.586	6.573	56.972	46.508	43.980	Data
58.5	69.708	6.584	56.981	46.506	43.979	Data
58.5	70.753	6.601	57.002	46.494	44.003	Data
60.5	71.268	6.515	57.031	46.495	43.993	Data
60.5	70.833	6.564	57.026	46.494	43.992	Data
60.5	69.739	6.535	57.038	46.492	43.998	Data
60.5	69.481	6.463	57.042	46.492	43.998	Data
61.75	71.268	6.515	57.031	46.495	43.993	Data
61.75	70.833	6.564	57.026	46.494	43.992	Data
61.75	69.739	6.535	57.038	46.492	43.998	Data
61.75	69.481	6.463	57.042	46.492	43.998	Data
63	71.268	6.515	57.031	46.495	43.993	Data
63	70.833	6.564	57.026	46.494	43.992	Data
63	69.739	6.535	57.038	46.492	43.998	Data
63	69.481	6.463	57.042	46.492	43.998	Data
64	70.833	6.564	57.026	46.494	43.992	Data
64	71.268	6.515	57.031	46.495	43.993	Data
64	69.739	6.535	57.038	46.492	43.998	Data
64	69.481	6.463	57.042	46.492	43.998	Data

Table 293: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.638	6.489	57.067	47.495	43.999	Data
30	68.362	6.482	57.064	47.493	43.998	Data
30	70.207	6.519	57.045	47.507	43.998	Data
30	69.231	6.551	57.041	47.499	44.003	Data
30	69.327	6.568	57.034	47.507	43.997	Data
30	70.289	6.496	57.043	47.493	43.997	Data
30	68.667	6.570	57.045	47.498	44.002	Data
30	69.366	6.513	57.045	47.492	43.997	Data
42	69.231	6.551	57.041	47.499	44.003	Data
42	68.667	6.570	57.045	47.498	44.002	Data
43	69.231	6.551	57.041	47.499	44.003	Data
43	68.667	6.570	57.045	47.498	44.002	Data
44	69.231	6.551	57.041	47.499	44.003	Data
44	68.667	6.570	57.045	47.498	44.002	Data
45	69.231	6.551	57.041	47.499	44.003	Data
45	68.667	6.570	57.045	47.498	44.002	Data
48	68.638	6.489	57.067	47.495	43.999	Data
48	68.362	6.482	57.064	47.493	43.998	Data
49	68.362	6.482	57.064	47.493	43.998	Data
49	68.638	6.489	57.067	47.495	43.999	Data
50	68.638	6.489	57.067	47.495	43.999	Data
50	68.362	6.482	57.064	47.493	43.998	Data
51	68.638	6.489	57.067	47.495	43.999	Data
51	68.362	6.482	57.064	47.493	43.998	Data
54	69.327	6.568	57.034	47.507	43.997	Data
54	70.207	6.519	57.045	47.507	43.998	Data
55	69.327	6.568	57.034	47.507	43.997	Data
55	70.207	6.519	57.045	47.507	43.998	Data
56	69.327	6.568	57.034	47.507	43.997	Data
56	70.207	6.519	57.045	47.507	43.998	Data
57	69.327	6.568	57.034	47.507	43.997	Data
57	70.207	6.519	57.045	47.507	43.998	Data
60.5	70.289	6.496	57.043	47.493	43.997	Data
60.5	69.366	6.513	57.045	47.492	43.997	Data
61.75	70.289	6.496	57.043	47.493	43.997	Data
61.75	69.366	6.513	57.045	47.492	43.997	Data
63	70.289	6.496	57.043	47.493	43.997	Data
63	69.366	6.513	57.045	47.492	43.997	Data
64	70.289	6.496	57.043	47.493	43.997	Data
64	69.366	6.513	57.045	47.492	43.997	Data

Table 294: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.546	6.431	57.073	48.503	43.998	Data
30	68.637	6.495	57.066	48.505	43.999	Data
30	69.462	6.585	57.041	48.498	43.997	Data
30	68.606	6.533	57.038	48.497	43.997	Data
30	69.464	6.464	57.042	48.512	44.003	Data
30	68.929	6.507	57.048	48.512	44.002	Data
30	69.669	6.515	57.040	48.498	43.996	Data
30	70.040	6.484	57.043	48.497	43.997	Data
42	69.464	6.464	57.042	48.512	44.003	Data
42	68.929	6.507	57.048	48.512	44.002	Data
43	69.464	6.464	57.042	48.512	44.003	Data
43	68.929	6.507	57.048	48.512	44.002	Data
44	69.464	6.464	57.042	48.512	44.003	Data
44	68.929	6.507	57.048	48.512	44.002	Data
45	69.464	6.464	57.042	48.512	44.003	Data
45	68.929	6.507	57.048	48.512	44.002	Data
48	68.546	6.431	57.073	48.503	43.998	Data
48	68.637	6.495	57.066	48.505	43.999	Data
49	68.546	6.431	57.073	48.503	43.998	Data
49	68.637	6.495	57.066	48.505	43.999	Data
50	68.546	6.431	57.073	48.503	43.998	Data
50	68.637	6.495	57.066	48.505	43.999	Data
51	68.546	6.431	57.073	48.503	43.998	Data
51	68.637	6.495	57.066	48.505	43.999	Data
54	69.462	6.585	57.041	48.498	43.997	Data
54	68.606	6.533	57.038	48.497	43.997	Data
55	69.462	6.585	57.041	48.498	43.997	Data
55	68.606	6.533	57.038	48.497	43.997	Data
56	69.462	6.585	57.041	48.498	43.997	Data
56	68.606	6.533	57.038	48.497	43.997	Data
57	69.462	6.585	57.041	48.498	43.997	Data
57	68.606	6.533	57.038	48.497	43.997	Data
60.5	69.669	6.515	57.040	48.498	43.996	Data
60.5	70.040	6.484	57.043	48.497	43.997	Data
61.75	69.669	6.515	57.040	48.498	43.996	Data
61.75	70.040	6.484	57.043	48.497	43.997	Data
63	69.669	6.515	57.040	48.498	43.996	Data
63	70.040	6.484	57.043	48.497	43.997	Data
64	69.669	6.515	57.040	48.498	43.996	Data
64	70.040	6.484	57.043	48.497	43.997	Data

Table 295: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.432	6.549	57.065	49.505	43.998	Data
30	69.507	6.521	57.035	49.501	43.997	Data
30	70.006	6.564	57.050	49.51	44.002	Data
30	69.675	6.532	57.035	49.501	43.997	Data
30	70.070	6.546	57.041	49.501	43.996	Data
30	69.525	6.494	57.040	49.51	44.002	Data
30	69.056	6.506	57.066	49.504	43.998	Data
30	69.343	6.556	57.038	49.501	43.996	Data
42	70.006	6.564	57.050	49.51	44.002	Data
42	69.525	6.494	57.040	49.51	44.002	Data
43	70.006	6.564	57.050	49.51	44.002	Data
43	69.525	6.494	57.040	49.51	44.002	Data
44	70.006	6.564	57.050	49.51	44.002	Data
44	69.525	6.494	57.040	49.51	44.002	Data
45	70.006	6.564	57.050	49.51	44.002	Data
45	69.525	6.494	57.040	49.51	44.002	Data
48	69.432	6.549	57.065	49.505	43.998	Data
48	69.056	6.506	57.066	49.504	43.998	Data
49	69.432	6.549	57.065	49.505	43.998	Data
49	69.056	6.506	57.066	49.504	43.998	Data
50	69.432	6.549	57.065	49.505	43.998	Data
50	69.056	6.506	57.066	49.504	43.998	Data
51	69.432	6.549	57.065	49.505	43.998	Data
51	69.056	6.506	57.066	49.504	43.998	Data
54	69.507	6.521	57.035	49.501	43.997	Data
54	69.675	6.532	57.035	49.501	43.997	Data
55	69.507	6.521	57.035	49.501	43.997	Data
55	69.675	6.532	57.035	49.501	43.997	Data
56	69.507	6.521	57.035	49.501	43.997	Data
56	69.675	6.532	57.035	49.501	43.997	Data
57	69.507	6.521	57.035	49.501	43.997	Data
57	69.675	6.532	57.035	49.501	43.997	Data
60.5	70.070	6.546	57.041	49.501	43.996	Data
60.5	69.343	6.556	57.038	49.501	43.996	Data
61.75	70.070	6.546	57.041	49.501	43.996	Data
61.75	69.343	6.556	57.038	49.501	43.996	Data
63	70.070	6.546	57.041	49.501	43.996	Data
63	69.343	6.556	57.038	49.501	43.996	Data
64	70.070	6.546	57.041	49.501	43.996	Data
64	69.343	6.556	57.038	49.501	43.996	Data

Table 296: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.123	6.527	57.070	50.502	43.998	Data
30	69.530	6.513	57.037	50.509	43.997	Data
30	68.572	6.551	57.066	50.503	43.998	Data
30	69.716	6.522	57.045	50.5	43.995	Data
30	69.970	6.522	57.038	50.51	43.997	Data
30	69.505	6.530	57.051	50.509	44.002	Data
30	69.520	6.468	57.043	50.497	43.995	Data
30	69.263	6.460	57.048	50.51	44.002	Data
42	69.505	6.530	57.051	50.509	44.002	Data
42	69.263	6.460	57.048	50.51	44.002	Data
43	69.505	6.530	57.051	50.509	44.002	Data
43	69.263	6.460	57.048	50.51	44.002	Data
44	69.505	6.530	57.051	50.509	44.002	Data
44	69.263	6.460	57.048	50.51	44.002	Data
45	69.505	6.530	57.051	50.509	44.002	Data
45	69.263	6.460	57.048	50.51	44.002	Data
48	68.572	6.551	57.066	50.503	43.998	Data
48	69.123	6.527	57.070	50.502	43.998	Data
49	68.572	6.551	57.066	50.503	43.998	Data
49	69.123	6.527	57.070	50.502	43.998	Data
50	68.572	6.551	57.066	50.503	43.998	Data
50	69.123	6.527	57.070	50.502	43.998	Data
51	68.572	6.551	57.066	50.503	43.998	Data
51	69.123	6.527	57.070	50.502	43.998	Data
54	69.530	6.513	57.037	50.509	43.997	Data
54	69.970	6.522	57.038	50.51	43.997	Data
55	69.530	6.513	57.037	50.509	43.997	Data
55	69.970	6.522	57.038	50.51	43.997	Data
56	69.530	6.513	57.037	50.509	43.997	Data
56	69.970	6.522	57.038	50.51	43.997	Data
57	69.530	6.513	57.037	50.509	43.997	Data
57	69.970	6.522	57.038	50.51	43.997	Data
60.5	69.716	6.522	57.045	50.5	43.995	Data
60.5	69.520	6.468	57.043	50.497	43.995	Data
61.75	69.716	6.522	57.045	50.5	43.995	Data
61.75	69.520	6.468	57.043	50.497	43.995	Data
63	69.716	6.522	57.045	50.5	43.995	Data
63	69.520	6.468	57.043	50.497	43.995	Data
64	69.716	6.522	57.045	50.5	43.995	Data
64	69.520	6.468	57.043	50.497	43.995	Data

Table 297: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.118	6.526	57.033	51.5	43.998	Data
30	70.247	6.460	57.052	51.505	44.001	Data
30	70.697	6.525	57.036	51.499	43.997	Data
30	70.057	6.568	57.047	51.5	43.995	Data
30	69.195	6.500	57.064	51.501	43.998	Data
30	68.941	6.563	57.068	51.502	43.998	Data
30	69.973	6.532	57.047	51.499	43.995	Data
30	69.093	6.498	57.055	51.506	44.001	Data
42	70.247	6.460	57.052	51.505	44.001	Data
42	69.093	6.498	57.055	51.506	44.001	Data
43	70.247	6.460	57.052	51.505	44.001	Data
43	69.093	6.498	57.055	51.506	44.001	Data
44	70.247	6.460	57.052	51.505	44.001	Data
44	69.093	6.498	57.055	51.506	44.001	Data
45	70.247	6.460	57.052	51.505	44.001	Data
45	69.093	6.498	57.055	51.506	44.001	Data
48	68.941	6.563	57.068	51.502	43.998	Data
48	69.195	6.500	57.064	51.501	43.998	Data
49	68.941	6.563	57.068	51.502	43.998	Data
49	69.195	6.500	57.064	51.501	43.998	Data
50	69.195	6.500	57.064	51.501	43.998	Data
50	68.941	6.563	57.068	51.502	43.998	Data
51	69.195	6.500	57.064	51.501	43.998	Data
51	68.941	6.563	57.068	51.502	43.998	Data
54	70.697	6.525	57.036	51.499	43.997	Data
54	70.118	6.526	57.033	51.5	43.998	Data
55	70.697	6.525	57.036	51.499	43.997	Data
55	70.118	6.526	57.033	51.5	43.998	Data
56	70.697	6.525	57.036	51.499	43.997	Data
56	70.118	6.526	57.033	51.5	43.998	Data
57	70.697	6.525	57.036	51.499	43.997	Data
57	70.118	6.526	57.033	51.5	43.998	Data
60.5	70.057	6.568	57.047	51.5	43.995	Data
60.5	69.973	6.532	57.047	51.499	43.995	Data
61.75	70.057	6.568	57.047	51.5	43.995	Data
61.75	69.973	6.532	57.047	51.499	43.995	Data
63	70.057	6.568	57.047	51.5	43.995	Data
63	69.973	6.532	57.047	51.499	43.995	Data
64	70.057	6.568	57.047	51.5	43.995	Data
64	69.973	6.532	57.047	51.499	43.995	Data

Table 298: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.775	6.577	56.994	52.497	43.991	Data
8	70.187	6.557	57.000	52.498	43.991	Data
30	70.775	6.577	56.994	52.497	43.991	Data
30	70.052	6.577	57.041	52.506	43.998	Data
30	69.345	6.517	57.073	52.499	43.998	Data
30	69.575	6.545	57.034	52.507	43.997	Data
30	68.936	6.562	57.041	52.5	44.010	Data
30	70.187	6.557	57.000	52.498	43.991	Data
30	68.997	6.525	57.063	52.499	43.998	Data
30	69.951	6.550	57.043	52.501	44.010	Data
30	69.173	6.581	57.040	52.502	44.010	Data
30	68.795	6.608	57.044	52.494	44.000	Data
30	69.503	6.502	57.068	52.5	44.000	Data
30	70.061	6.546	57.072	52.501	44.000	Data
30	69.613	6.514	57.047	52.504	44.001	Data
30	69.742	6.517	57.048	52.503	44.001	Data
30	68.660	6.559	57.039	52.494	44.001	Data
30	68.967	6.559	57.039	52.502	44.010	Data
30	69.881	6.520	57.043	52.503	43.995	Data
30	70.704	6.574	57.042	52.502	43.995	Data
42	69.951	6.550	57.043	52.501	44.010	Data
42	69.613	6.514	57.047	52.504	44.001	Data
42	69.742	6.517	57.048	52.503	44.001	Data
42	68.967	6.559	57.039	52.502	44.010	Data
43	69.951	6.550	57.043	52.501	44.010	Data
43	69.613	6.514	57.047	52.504	44.001	Data
43	69.742	6.517	57.048	52.503	44.001	Data
43	68.967	6.559	57.039	52.502	44.010	Data
44	69.951	6.550	57.043	52.501	44.010	Data
44	69.613	6.514	57.047	52.504	44.001	Data
44	68.967	6.559	57.039	52.502	44.010	Data
44	69.742	6.517	57.048	52.503	44.001	Data
45	69.951	6.550	57.043	52.501	44.010	Data
45	69.613	6.514	57.047	52.504	44.001	Data
45	68.967	6.559	57.039	52.502	44.010	Data
45	69.742	6.517	57.048	52.503	44.001	Data
46.5	70.775	6.577	56.994	52.497	43.991	Data
46.5	70.187	6.557	57.000	52.498	43.991	Data
48	70.061	6.546	57.072	52.501	44.000	Data
48	69.345	6.517	57.073	52.499	43.998	Data
48	69.503	6.502	57.068	52.5	44.000	Data
48	68.997	6.525	57.063	52.499	43.998	Data
49	70.061	6.546	57.072	52.501	44.000	Data
49	69.345	6.517	57.073	52.499	43.998	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
49	69.503	6.502	57.068	52.5	44.000	Data
49	68.997	6.525	57.063	52.499	43.998	Data
50	70.061	6.546	57.072	52.501	44.000	Data
50	69.503	6.502	57.068	52.5	44.000	Data
50	69.345	6.517	57.073	52.499	43.998	Data
50	68.997	6.525	57.063	52.499	43.998	Data
51	70.061	6.546	57.072	52.501	44.000	Data
51	69.503	6.502	57.068	52.5	44.000	Data
51	69.345	6.517	57.073	52.499	43.998	Data
51	68.997	6.525	57.063	52.499	43.998	Data
52.5	70.775	6.577	56.994	52.497	43.991	Data
52.5	70.187	6.557	57.000	52.498	43.991	Data
54	70.052	6.577	57.041	52.506	43.998	Data
54	69.575	6.545	57.034	52.507	43.997	Data
54	69.173	6.581	57.040	52.502	44.010	Data
54	68.936	6.562	57.041	52.5	44.010	Data
55	70.052	6.577	57.041	52.506	43.998	Data
55	69.575	6.545	57.034	52.507	43.997	Data
55	69.173	6.581	57.040	52.502	44.010	Data
55	68.936	6.562	57.041	52.5	44.010	Data
56	70.052	6.577	57.041	52.506	43.998	Data
56	69.575	6.545	57.034	52.507	43.997	Data
56	69.173	6.581	57.040	52.502	44.010	Data
56	68.936	6.562	57.041	52.5	44.010	Data
57	70.052	6.577	57.041	52.506	43.998	Data
57	69.575	6.545	57.034	52.507	43.997	Data
57	69.173	6.581	57.040	52.502	44.010	Data
57	68.936	6.562	57.041	52.5	44.010	Data
58.5	70.187	6.557	57.000	52.498	43.991	Data
58.5	70.775	6.577	56.994	52.497	43.991	Data
60.5	68.795	6.608	57.044	52.494	44.000	Data
60.5	68.660	6.559	57.039	52.494	44.001	Data
60.5	69.881	6.520	57.043	52.503	43.995	Data
60.5	70.704	6.574	57.042	52.502	43.995	Data
61.75	68.795	6.608	57.044	52.494	44.000	Data
61.75	68.660	6.559	57.039	52.494	44.001	Data
61.75	69.881	6.520	57.043	52.503	43.995	Data
61.75	70.704	6.574	57.042	52.502	43.995	Data
63	68.795	6.608	57.044	52.494	44.000	Data
63	69.881	6.520	57.043	52.503	43.995	Data
63	68.660	6.559	57.039	52.494	44.001	Data
63	70.704	6.574	57.042	52.502	43.995	Data
64	68.660	6.559	57.039	52.494	44.001	Data
64	68.795	6.608	57.044	52.494	44.000	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	69.881	6.520	57.043	52.503	43.995	Data
64	70.704	6.574	57.042	52.502	43.995	Data

Table 299: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.453	6.539	57.069	53.496	43.997	Data
30	70.623	6.530	57.049	53.491	43.994	Data
30	69.363	6.492	57.066	53.495	43.998	Data
30	70.304	6.526	57.041	53.503	43.997	Data
30	69.606	6.466	57.052	53.501	44.001	Data
30	70.160	6.502	57.053	53.493	43.994	Data
30	70.198	6.537	57.040	53.503	43.997	Data
30	69.186	6.512	57.052	53.501	44.001	Data
42	69.606	6.466	57.052	53.501	44.001	Data
42	69.186	6.512	57.052	53.501	44.001	Data
43	69.606	6.466	57.052	53.501	44.001	Data
43	69.186	6.512	57.052	53.501	44.001	Data
44	69.606	6.466	57.052	53.501	44.001	Data
44	69.186	6.512	57.052	53.501	44.001	Data
45	69.606	6.466	57.052	53.501	44.001	Data
45	69.186	6.512	57.052	53.501	44.001	Data
48	69.453	6.539	57.069	53.496	43.997	Data
48	69.363	6.492	57.066	53.495	43.998	Data
49	69.453	6.539	57.069	53.496	43.997	Data
49	69.363	6.492	57.066	53.495	43.998	Data
50	69.453	6.539	57.069	53.496	43.997	Data
50	69.363	6.492	57.066	53.495	43.998	Data
51	69.453	6.539	57.069	53.496	43.997	Data
51	69.363	6.492	57.066	53.495	43.998	Data
54	70.198	6.537	57.040	53.503	43.997	Data
54	70.304	6.526	57.041	53.503	43.997	Data
55	70.198	6.537	57.040	53.503	43.997	Data
55	70.304	6.526	57.041	53.503	43.997	Data
56	70.198	6.537	57.040	53.503	43.997	Data
56	70.304	6.526	57.041	53.503	43.997	Data
57	70.304	6.526	57.041	53.503	43.997	Data
57	70.198	6.537	57.040	53.503	43.997	Data
60.5	70.160	6.502	57.053	53.493	43.994	Data
60.5	70.623	6.530	57.049	53.491	43.994	Data
61.75	70.160	6.502	57.053	53.493	43.994	Data
61.75	70.623	6.530	57.049	53.491	43.994	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	70.160	6.502	57.053	53.493	43.994	Data
63	70.623	6.530	57.049	53.491	43.994	Data
64	70.160	6.502	57.053	53.493	43.994	Data
64	70.623	6.530	57.049	53.491	43.994	Data

Table 300: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.299	6.505	56.963	54.501	44.147	Data
8	70.673	6.518	56.966	54.501	44.148	Data
30	70.673	6.518	56.966	54.501	44.148	Data
30	70.019	6.525	57.044	54.49	43.997	Data
30	70.299	6.505	56.963	54.501	44.147	Data
30	71.014	6.505	57.046	54.489	43.993	Data
30	70.124	6.471	57.052	54.501	44.001	Data
30	69.864	6.548	57.045	54.491	43.997	Data
30	69.253	6.469	57.063	54.49	43.998	Data
30	69.888	6.484	57.066	54.493	43.998	Data
30	70.197	6.477	57.058	54.501	44.001	Data
30	70.681	6.564	57.047	54.49	43.993	Data
42	70.124	6.471	57.052	54.501	44.001	Data
42	70.197	6.477	57.058	54.501	44.001	Data
43	70.124	6.471	57.052	54.501	44.001	Data
43	70.197	6.477	57.058	54.501	44.001	Data
44	70.197	6.477	57.058	54.501	44.001	Data
44	70.124	6.471	57.052	54.501	44.001	Data
45	70.124	6.471	57.052	54.501	44.001	Data
45	70.197	6.477	57.058	54.501	44.001	Data
46.5	70.299	6.505	56.963	54.501	44.147	Data
46.5	70.673	6.518	56.966	54.501	44.148	Data
48	69.253	6.469	57.063	54.49	43.998	Data
48	69.888	6.484	57.066	54.493	43.998	Data
49	69.253	6.469	57.063	54.49	43.998	Data
49	69.888	6.484	57.066	54.493	43.998	Data
50	69.253	6.469	57.063	54.49	43.998	Data
50	69.888	6.484	57.066	54.493	43.998	Data
51	69.253	6.469	57.063	54.49	43.998	Data
51	69.888	6.484	57.066	54.493	43.998	Data
52.5	70.299	6.505	56.963	54.501	44.147	Data
52.5	70.673	6.518	56.966	54.501	44.148	Data
54	70.019	6.525	57.044	54.49	43.997	Data
54	69.864	6.548	57.045	54.491	43.997	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	70.019	6.525	57.044	54.49	43.997	Data
55	69.864	6.548	57.045	54.491	43.997	Data
56	70.019	6.525	57.044	54.49	43.997	Data
56	69.864	6.548	57.045	54.491	43.997	Data
57	70.019	6.525	57.044	54.49	43.997	Data
57	69.864	6.548	57.045	54.491	43.997	Data
58.5	70.299	6.505	56.963	54.501	44.147	Data
58.5	70.673	6.518	56.966	54.501	44.148	Data
60.5	71.014	6.505	57.046	54.489	43.993	Data
60.5	70.681	6.564	57.047	54.49	43.993	Data
61.75	71.014	6.505	57.046	54.489	43.993	Data
61.75	70.681	6.564	57.047	54.49	43.993	Data
63	71.014	6.505	57.046	54.489	43.993	Data
63	70.681	6.564	57.047	54.49	43.993	Data
64	71.014	6.505	57.046	54.489	43.993	Data
64	70.681	6.564	57.047	54.49	43.993	Data

Table 301: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.928	6.560	56.965	55.501	44.143	Data
8	69.190	6.569	56.959	55.5	44.143	Data
30	69.784	6.481	57.072	55.496	43.998	Data
30	69.928	6.560	56.965	55.501	44.143	Data
30	70.417	6.590	57.038	55.491	43.993	Data
30	69.956	6.534	57.048	55.499	44.001	Data
30	70.152	6.478	57.070	55.492	43.997	Data
30	70.686	6.515	57.044	55.497	43.997	Data
30	70.073	6.490	57.049	55.491	43.993	Data
30	70.965	6.538	57.041	55.496	43.997	Data
30	69.190	6.569	56.959	55.5	44.143	Data
30	70.366	6.547	57.051	55.501	44.001	Data
42	69.956	6.534	57.048	55.499	44.001	Data
42	70.366	6.547	57.051	55.501	44.001	Data
43	70.366	6.547	57.051	55.501	44.001	Data
43	69.956	6.534	57.048	55.499	44.001	Data
44	70.366	6.547	57.051	55.501	44.001	Data
44	69.956	6.534	57.048	55.499	44.001	Data
45	70.366	6.547	57.051	55.501	44.001	Data
45	69.956	6.534	57.048	55.499	44.001	Data
46.5	69.928	6.560	56.965	55.501	44.143	Data
46.5	69.190	6.569	56.959	55.5	44.143	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	70.152	6.478	57.070	55.492	43.997	Data
48	69.784	6.481	57.072	55.496	43.998	Data
49	70.152	6.478	57.070	55.492	43.997	Data
49	69.784	6.481	57.072	55.496	43.998	Data
50	70.152	6.478	57.070	55.492	43.997	Data
50	69.784	6.481	57.072	55.496	43.998	Data
51	70.152	6.478	57.070	55.492	43.997	Data
51	69.784	6.481	57.072	55.496	43.998	Data
52.5	69.928	6.560	56.965	55.501	44.143	Data
52.5	69.190	6.569	56.959	55.5	44.143	Data
54	70.965	6.538	57.041	55.496	43.997	Data
54	70.686	6.515	57.044	55.497	43.997	Data
55	70.965	6.538	57.041	55.496	43.997	Data
55	70.686	6.515	57.044	55.497	43.997	Data
56	70.686	6.515	57.044	55.497	43.997	Data
56	70.965	6.538	57.041	55.496	43.997	Data
57	70.686	6.515	57.044	55.497	43.997	Data
57	70.965	6.538	57.041	55.496	43.997	Data
58.5	69.190	6.569	56.959	55.5	44.143	Data
58.5	69.928	6.560	56.965	55.501	44.143	Data
60.5	70.073	6.490	57.049	55.491	43.993	Data
60.5	70.417	6.590	57.038	55.491	43.993	Data
61.75	70.073	6.490	57.049	55.491	43.993	Data
61.75	70.417	6.590	57.038	55.491	43.993	Data
63	70.073	6.490	57.049	55.491	43.993	Data
63	70.417	6.590	57.038	55.491	43.993	Data
64	70.073	6.490	57.049	55.491	43.993	Data
64	70.417	6.590	57.038	55.491	43.993	Data

Table 302: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.023	6.619	56.953	56.497	44.140	Data
8	70.139	6.585	56.957	56.497	44.140	Data
30	69.695	6.522	57.077	56.497	43.998	Data
30	70.073	6.511	57.066	56.497	43.998	Data
30	69.817	6.571	57.042	56.509	44.001	Data
30	70.733	6.507	57.045	56.496	43.997	Data
30	70.432	6.541	57.048	56.496	43.997	Data
30	71.218	6.519	57.041	56.502	43.992	Data
30	71.111	6.489	57.045	56.499	43.992	Data
30	70.139	6.585	56.957	56.497	44.140	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.023	6.619	56.953	56.497	44.140	Data
30	69.932	6.513	57.049	56.509	44.001	Data
42	69.817	6.571	57.042	56.509	44.001	Data
42	69.932	6.513	57.049	56.509	44.001	Data
43	69.817	6.571	57.042	56.509	44.001	Data
43	69.932	6.513	57.049	56.509	44.001	Data
44	69.817	6.571	57.042	56.509	44.001	Data
44	69.932	6.513	57.049	56.509	44.001	Data
45	69.817	6.571	57.042	56.509	44.001	Data
45	69.932	6.513	57.049	56.509	44.001	Data
46.5	70.139	6.585	56.957	56.497	44.140	Data
46.5	70.023	6.619	56.953	56.497	44.140	Data
48	69.695	6.522	57.077	56.497	43.998	Data
48	70.073	6.511	57.066	56.497	43.998	Data
49	69.695	6.522	57.077	56.497	43.998	Data
49	70.073	6.511	57.066	56.497	43.998	Data
50	69.695	6.522	57.077	56.497	43.998	Data
50	70.073	6.511	57.066	56.497	43.998	Data
51	70.073	6.511	57.066	56.497	43.998	Data
51	69.695	6.522	57.077	56.497	43.998	Data
52.5	70.139	6.585	56.957	56.497	44.140	Data
52.5	70.023	6.619	56.953	56.497	44.140	Data
54	70.733	6.507	57.045	56.496	43.997	Data
54	70.432	6.541	57.048	56.496	43.997	Data
55	70.733	6.507	57.045	56.496	43.997	Data
55	70.432	6.541	57.048	56.496	43.997	Data
56	70.733	6.507	57.045	56.496	43.997	Data
56	70.432	6.541	57.048	56.496	43.997	Data
57	70.733	6.507	57.045	56.496	43.997	Data
57	70.432	6.541	57.048	56.496	43.997	Data
58.5	70.023	6.619	56.953	56.497	44.140	Data
58.5	70.139	6.585	56.957	56.497	44.140	Data
60.5	71.218	6.519	57.041	56.502	43.992	Data
60.5	71.111	6.489	57.045	56.499	43.992	Data
61.75	71.218	6.519	57.041	56.502	43.992	Data
61.75	71.111	6.489	57.045	56.499	43.992	Data
63	71.218	6.519	57.041	56.502	43.992	Data
63	71.111	6.489	57.045	56.499	43.992	Data
64	71.218	6.519	57.041	56.502	43.992	Data
64	71.111	6.489	57.045	56.499	43.992	Data

Table 303: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.949	6.578	56.953	57.505	44.135	Data
8	70.759	6.465	56.954	57.506	44.135	Data
30	70.949	6.578	56.953	57.505	44.135	Data
30	71.051	6.522	57.038	57.505	43.997	Data
30	70.796	6.583	57.040	57.503	43.997	Data
30	71.273	6.458	57.045	57.499	43.991	Data
30	70.435	6.486	57.067	57.51	43.998	Data
30	71.200	6.544	57.050	57.5	43.991	Data
30	70.759	6.465	56.954	57.506	44.135	Data
30	70.360	6.478	57.068	57.51	43.998	Data
30	70.732	6.517	57.045	57.514	44.002	Data
30	70.056	6.532	57.052	57.513	44.001	Data
42	70.056	6.532	57.052	57.513	44.001	Data
42	70.732	6.517	57.045	57.514	44.002	Data
43	70.056	6.532	57.052	57.513	44.001	Data
43	70.732	6.517	57.045	57.514	44.002	Data
44	70.056	6.532	57.052	57.513	44.001	Data
44	70.732	6.517	57.045	57.514	44.002	Data
45	70.056	6.532	57.052	57.513	44.001	Data
45	70.732	6.517	57.045	57.514	44.002	Data
46.5	70.949	6.578	56.953	57.505	44.135	Data
46.5	70.759	6.465	56.954	57.506	44.135	Data
48	70.435	6.486	57.067	57.51	43.998	Data
48	70.360	6.478	57.068	57.51	43.998	Data
49	70.435	6.486	57.067	57.51	43.998	Data
49	70.360	6.478	57.068	57.51	43.998	Data
50	70.435	6.486	57.067	57.51	43.998	Data
50	70.360	6.478	57.068	57.51	43.998	Data
51	70.435	6.486	57.067	57.51	43.998	Data
51	70.360	6.478	57.068	57.51	43.998	Data
52.5	70.949	6.578	56.953	57.505	44.135	Data
52.5	70.759	6.465	56.954	57.506	44.135	Data
54	70.796	6.583	57.040	57.503	43.997	Data
54	71.051	6.522	57.038	57.505	43.997	Data
55	70.796	6.583	57.040	57.503	43.997	Data
55	71.051	6.522	57.038	57.505	43.997	Data
56	70.796	6.583	57.040	57.503	43.997	Data
56	71.051	6.522	57.038	57.505	43.997	Data
57	71.051	6.522	57.038	57.505	43.997	Data
57	70.796	6.583	57.040	57.503	43.997	Data
58.5	70.949	6.578	56.953	57.505	44.135	Data
58.5	70.759	6.465	56.954	57.506	44.135	Data
60.5	71.200	6.544	57.050	57.5	43.991	Data
60.5	71.273	6.458	57.045	57.499	43.991	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	71.200	6.544	57.050	57.5	43.991	Data
61.75	71.273	6.458	57.045	57.499	43.991	Data
63	71.200	6.544	57.050	57.5	43.991	Data
63	71.273	6.458	57.045	57.499	43.991	Data
64	71.200	6.544	57.050	57.5	43.991	Data
64	71.273	6.458	57.045	57.499	43.991	Data

Table 304: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.858	6.505	56.974	58.503	44.132	Data
8	69.504	6.552	57.002	58.501	44.001	Data
8	70.190	6.576	57.002	58.5	44.001	Data
8	69.673	6.505	56.974	58.503	44.132	Data
30	70.190	6.576	57.002	58.5	44.001	Data
30	69.994	6.512	57.036	58.509	44.017	Data
30	69.275	6.561	57.043	58.499	43.996	Data
30	70.456	6.553	57.042	58.506	43.996	Data
30	69.513	6.546	57.046	58.499	43.996	Data
30	69.504	6.552	57.002	58.501	44.001	Data
30	69.872	6.456	57.069	58.507	43.999	Data
30	71.193	6.453	57.068	58.508	43.996	Data
30	70.580	6.545	57.049	58.51	43.991	Data
30	70.532	6.509	57.069	58.509	43.999	Data
30	69.847	6.505	57.050	58.519	44.002	Data
30	70.397	6.524	57.040	58.505	43.996	Data
30	69.858	6.505	56.974	58.503	44.132	Data
30	70.289	6.463	57.033	58.518	43.999	Data
30	70.932	6.560	57.048	58.51	43.990	Data
30	70.248	6.550	57.037	58.517	43.999	Data
30	70.016	6.534	57.042	58.511	44.017	Data
30	70.228	6.503	57.051	58.52	44.002	Data
30	69.673	6.505	56.974	58.503	44.132	Data
30	70.638	6.485	57.064	58.509	43.997	Data
42	70.289	6.463	57.033	58.518	43.999	Data
42	69.847	6.505	57.050	58.519	44.002	Data
42	70.248	6.550	57.037	58.517	43.999	Data
42	70.228	6.503	57.051	58.52	44.002	Data
43	70.289	6.463	57.033	58.518	43.999	Data
43	69.847	6.505	57.050	58.519	44.002	Data
43	70.248	6.550	57.037	58.517	43.999	Data
43	70.228	6.503	57.051	58.52	44.002	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	70.289	6.463	57.033	58.518	43.999	Data
44	69.847	6.505	57.050	58.519	44.002	Data
44	70.248	6.550	57.037	58.517	43.999	Data
44	70.228	6.503	57.051	58.52	44.002	Data
45	70.289	6.463	57.033	58.518	43.999	Data
45	69.847	6.505	57.050	58.519	44.002	Data
45	70.248	6.550	57.037	58.517	43.999	Data
45	70.228	6.503	57.051	58.52	44.002	Data
46.5	69.504	6.552	57.002	58.501	44.001	Data
46.5	69.858	6.505	56.974	58.503	44.132	Data
46.5	70.190	6.576	57.002	58.5	44.001	Data
46.5	69.673	6.505	56.974	58.503	44.132	Data
48	71.193	6.453	57.068	58.508	43.996	Data
48	69.872	6.456	57.069	58.507	43.999	Data
48	70.532	6.509	57.069	58.509	43.999	Data
48	70.638	6.485	57.064	58.509	43.997	Data
49	71.193	6.453	57.068	58.508	43.996	Data
49	69.872	6.456	57.069	58.507	43.999	Data
49	70.638	6.485	57.064	58.509	43.997	Data
49	70.532	6.509	57.069	58.509	43.999	Data
50	71.193	6.453	57.068	58.508	43.996	Data
50	70.638	6.485	57.064	58.509	43.997	Data
50	69.872	6.456	57.069	58.507	43.999	Data
50	70.532	6.509	57.069	58.509	43.999	Data
51	71.193	6.453	57.068	58.508	43.996	Data
51	70.638	6.485	57.064	58.509	43.997	Data
51	69.872	6.456	57.069	58.507	43.999	Data
51	70.532	6.509	57.069	58.509	43.999	Data
52.5	69.858	6.505	56.974	58.503	44.132	Data
52.5	69.504	6.552	57.002	58.501	44.001	Data
52.5	69.673	6.505	56.974	58.503	44.132	Data
52.5	70.190	6.576	57.002	58.5	44.001	Data
54	70.456	6.553	57.042	58.506	43.996	Data
54	69.994	6.512	57.036	58.509	44.017	Data
54	70.397	6.524	57.040	58.505	43.996	Data
54	70.016	6.534	57.042	58.511	44.017	Data
55	70.456	6.553	57.042	58.506	43.996	Data
55	69.994	6.512	57.036	58.509	44.017	Data
55	70.397	6.524	57.040	58.505	43.996	Data
55	70.016	6.534	57.042	58.511	44.017	Data
56	70.456	6.553	57.042	58.506	43.996	Data
56	70.397	6.524	57.040	58.505	43.996	Data
56	69.994	6.512	57.036	58.509	44.017	Data
56	70.016	6.534	57.042	58.511	44.017	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	70.456	6.553	57.042	58.506	43.996	Data
57	70.397	6.524	57.040	58.505	43.996	Data
57	70.016	6.534	57.042	58.511	44.017	Data
57	69.994	6.512	57.036	58.509	44.017	Data
58.5	69.858	6.505	56.974	58.503	44.132	Data
58.5	69.504	6.552	57.002	58.501	44.001	Data
58.5	70.190	6.576	57.002	58.5	44.001	Data
58.5	69.673	6.505	56.974	58.503	44.132	Data
60.5	69.275	6.561	57.043	58.499	43.996	Data
60.5	69.513	6.546	57.046	58.499	43.996	Data
60.5	70.932	6.560	57.048	58.51	43.990	Data
60.5	70.580	6.545	57.049	58.51	43.991	Data
61.75	69.275	6.561	57.043	58.499	43.996	Data
61.75	69.513	6.546	57.046	58.499	43.996	Data
61.75	70.580	6.545	57.049	58.51	43.991	Data
61.75	70.932	6.560	57.048	58.51	43.990	Data
63	69.275	6.561	57.043	58.499	43.996	Data
63	69.513	6.546	57.046	58.499	43.996	Data
63	70.580	6.545	57.049	58.51	43.991	Data
63	70.932	6.560	57.048	58.51	43.990	Data
64	69.275	6.561	57.043	58.499	43.996	Data
64	70.932	6.560	57.048	58.51	43.990	Data
64	70.580	6.545	57.049	58.51	43.991	Data
64	69.513	6.546	57.046	58.499	43.996	Data

Table 305: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.394	6.555	57.006	59.5	44.127	Data
8	69.799	6.577	57.011	59.499	44.126	Data
30	70.394	6.555	57.006	59.5	44.127	Data
30	69.799	6.577	57.011	59.499	44.126	Data
30	70.177	6.463	57.064	59.505	43.999	Data
30	70.624	6.552	57.045	59.501	43.990	Data
30	70.917	6.490	57.044	59.5	43.990	Data
30	70.722	6.518	57.047	59.505	43.996	Data
30	69.989	6.505	57.072	59.506	43.999	Data
30	70.716	6.516	57.043	59.506	43.996	Data
30	69.794	6.539	57.051	59.518	44.003	Data
30	70.209	6.539	57.049	59.517	44.003	Data
42	69.794	6.539	57.051	59.518	44.003	Data
42	70.209	6.539	57.049	59.517	44.003	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	69.794	6.539	57.051	59.518	44.003	Data
43	70.209	6.539	57.049	59.517	44.003	Data
44	69.794	6.539	57.051	59.518	44.003	Data
44	70.209	6.539	57.049	59.517	44.003	Data
45	69.794	6.539	57.051	59.518	44.003	Data
45	70.209	6.539	57.049	59.517	44.003	Data
46.5	69.799	6.577	57.011	59.499	44.126	Data
46.5	70.394	6.555	57.006	59.5	44.127	Data
48	70.177	6.463	57.064	59.505	43.999	Data
48	69.989	6.505	57.072	59.506	43.999	Data
49	70.177	6.463	57.064	59.505	43.999	Data
49	69.989	6.505	57.072	59.506	43.999	Data
50	70.177	6.463	57.064	59.505	43.999	Data
50	69.989	6.505	57.072	59.506	43.999	Data
51	70.177	6.463	57.064	59.505	43.999	Data
51	69.989	6.505	57.072	59.506	43.999	Data
52.5	69.799	6.577	57.011	59.499	44.126	Data
52.5	70.394	6.555	57.006	59.5	44.127	Data
54	70.716	6.516	57.043	59.506	43.996	Data
54	70.722	6.518	57.047	59.505	43.996	Data
55	70.716	6.516	57.043	59.506	43.996	Data
55	70.722	6.518	57.047	59.505	43.996	Data
56	70.716	6.516	57.043	59.506	43.996	Data
56	70.722	6.518	57.047	59.505	43.996	Data
57	70.716	6.516	57.043	59.506	43.996	Data
57	70.722	6.518	57.047	59.505	43.996	Data
58.5	69.799	6.577	57.011	59.499	44.126	Data
58.5	70.394	6.555	57.006	59.5	44.127	Data
60.5	70.917	6.490	57.044	59.5	43.990	Data
60.5	70.624	6.552	57.045	59.501	43.990	Data
61.75	70.917	6.490	57.044	59.5	43.990	Data
61.75	70.624	6.552	57.045	59.501	43.990	Data
63	70.624	6.552	57.045	59.501	43.990	Data
63	70.917	6.490	57.044	59.5	43.990	Data
64	70.624	6.552	57.045	59.501	43.990	Data
64	70.917	6.490	57.044	59.5	43.990	Data

Table 306: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.169	6.594	57.001	60.492	44.118	Data
8	70.379	6.639	57.004	60.492	44.118	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.169	6.594	57.001	60.492	44.118	Data
30	70.379	6.639	57.004	60.492	44.118	Data
30	69.720	6.512	56.992	60.477	44.050	Data
30	70.402	6.520	56.987	60.478	44.050	Data
30	70.416	6.558	57.043	60.48	43.995	Data
30	70.968	6.493	57.047	60.506	43.989	Data
30	70.752	6.523	57.072	60.516	44.000	Data
30	70.537	6.603	57.046	60.48	43.995	Data
30	71.144	6.554	57.046	60.506	43.989	Data
30	70.328	6.510	57.067	60.514	44.000	Data
30	70.255	6.523	57.049	60.515	44.004	Data
30	70.364	6.510	57.047	60.514	44.004	Data
42	70.255	6.523	57.049	60.515	44.004	Data
42	70.364	6.510	57.047	60.514	44.004	Data
43	70.255	6.523	57.049	60.515	44.004	Data
43	70.364	6.510	57.047	60.514	44.004	Data
44	70.255	6.523	57.049	60.515	44.004	Data
44	70.364	6.510	57.047	60.514	44.004	Data
45	70.255	6.523	57.049	60.515	44.004	Data
45	70.364	6.510	57.047	60.514	44.004	Data
46.5	70.169	6.594	57.001	60.492	44.118	Data
46.5	70.379	6.639	57.004	60.492	44.118	Data
48	70.752	6.523	57.072	60.516	44.000	Data
48	70.328	6.510	57.067	60.514	44.000	Data
49	70.752	6.523	57.072	60.516	44.000	Data
49	70.328	6.510	57.067	60.514	44.000	Data
50	70.752	6.523	57.072	60.516	44.000	Data
50	70.328	6.510	57.067	60.514	44.000	Data
51	70.752	6.523	57.072	60.516	44.000	Data
51	70.328	6.510	57.067	60.514	44.000	Data
52.5	70.169	6.594	57.001	60.492	44.118	Data
52.5	70.379	6.639	57.004	60.492	44.118	Data
54	69.720	6.512	56.992	60.477	44.050	Data
54	70.537	6.603	57.046	60.48	43.995	Data
54	70.402	6.520	56.987	60.478	44.050	Data
54	70.416	6.558	57.043	60.48	43.995	Data
55	69.720	6.512	56.992	60.477	44.050	Data
55	70.537	6.603	57.046	60.48	43.995	Data
55	70.402	6.520	56.987	60.478	44.050	Data
55	70.416	6.558	57.043	60.48	43.995	Data
56	69.720	6.512	56.992	60.477	44.050	Data
56	70.537	6.603	57.046	60.48	43.995	Data
56	70.402	6.520	56.987	60.478	44.050	Data
56	70.416	6.558	57.043	60.48	43.995	Data

VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	69.720	6.512	56.992	60.477	44.050	Data
57	70.537	6.603	57.046	60.48	43.995	Data
57	70.402	6.520	56.987	60.478	44.050	Data
57	70.416	6.558	57.043	60.48	43.995	Data
58.5	70.379	6.639	57.004	60.492	44.118	Data
58.5	70.169	6.594	57.001	60.492	44.118	Data
60.5	71.144	6.554	57.046	60.506	43.989	Data
60.5	70.968	6.493	57.047	60.506	43.989	Data
61.75	71.144	6.554	57.046	60.506	43.989	Data
61.75	70.968	6.493	57.047	60.506	43.989	Data
63	71.144	6.554	57.046	60.506	43.989	Data
63	70.968	6.493	57.047	60.506	43.989	Data
64	70.968	6.493	57.047	60.506	43.989	Data
64	71.144	6.554	57.046	60.506	43.989	Data

Table 307: VG horizontal sweep: q=70 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)

D.24. Horizontal VG vortex sweep at height z=44, q=45, α_{VG}=4, α_W=7, SQ-tip

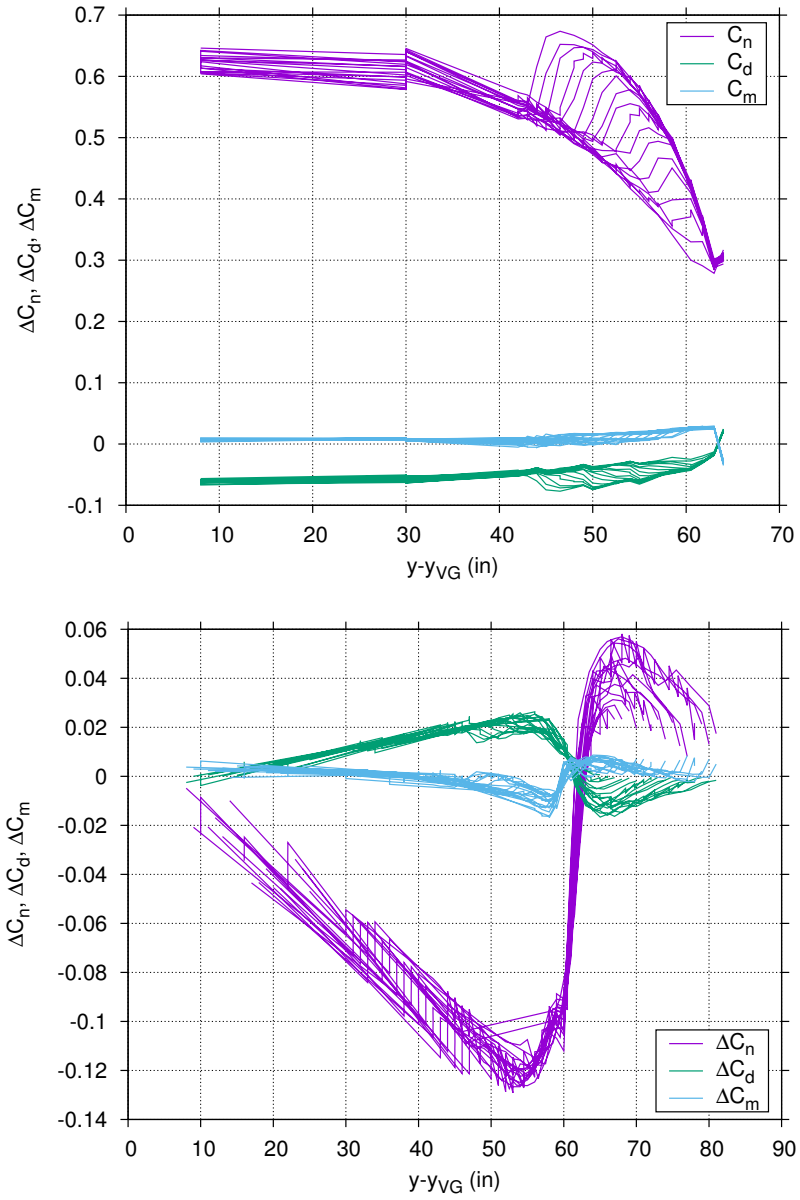

Figure 77. VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — (Data)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.970	6.637	56.970	43.5	44.018	Data
8	45.197	6.635	56.969	43.5	44.017	Data
30	44.686	6.519	57.056	43.504	43.999	Data
30	45.187	6.540	57.071	43.506	44.004	Data
30	45.197	6.635	56.969	43.5	44.017	Data
30	45.500	6.517	57.010	43.502	44.063	Data
30	44.970	6.637	56.970	43.5	44.018	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.344	6.556	57.016	43.502	44.063	Data
30	45.092	6.514	57.050	43.504	43.999	Data
30	44.461	6.587	57.042	43.499	43.999	Data
30	44.461	6.587	57.042	43.499	43.999	Data
30	45.070	6.548	57.060	43.507	44.004	Data
42	45.187	6.540	57.071	43.506	44.004	Data
42	45.070	6.548	57.060	43.507	44.004	Data
43	45.187	6.540	57.071	43.506	44.004	Data
43	45.070	6.548	57.060	43.507	44.004	Data
44	45.187	6.540	57.071	43.506	44.004	Data
44	45.070	6.548	57.060	43.507	44.004	Data
45	45.187	6.540	57.071	43.506	44.004	Data
45	45.070	6.548	57.060	43.507	44.004	Data
46.5	45.197	6.635	56.969	43.5	44.017	Data
46.5	44.970	6.637	56.970	43.5	44.018	Data
48	45.092	6.514	57.050	43.504	43.999	Data
48	44.686	6.519	57.056	43.504	43.999	Data
49	45.092	6.514	57.050	43.504	43.999	Data
49	44.686	6.519	57.056	43.504	43.999	Data
50	45.092	6.514	57.050	43.504	43.999	Data
50	44.686	6.519	57.056	43.504	43.999	Data
51	45.092	6.514	57.050	43.504	43.999	Data
51	44.686	6.519	57.056	43.504	43.999	Data
52.5	44.970	6.637	56.970	43.5	44.018	Data
52.5	45.197	6.635	56.969	43.5	44.017	Data
54	45.344	6.556	57.016	43.502	44.063	Data
54	45.500	6.517	57.010	43.502	44.063	Data
55	45.344	6.556	57.016	43.502	44.063	Data
55	45.500	6.517	57.010	43.502	44.063	Data
56	45.344	6.556	57.016	43.502	44.063	Data
56	45.500	6.517	57.010	43.502	44.063	Data
57	45.344	6.556	57.016	43.502	44.063	Data
57	45.500	6.517	57.010	43.502	44.063	Data
58.5	44.970	6.637	56.970	43.5	44.018	Data
58.5	45.197	6.635	56.969	43.5	44.017	Data
60.5	44.461	6.587	57.042	43.499	43.999	Data
60.5	44.461	6.587	57.042	43.499	43.999	Data
61.75	44.461	6.587	57.042	43.499	43.999	Data
61.75	44.461	6.587	57.042	43.499	43.999	Data
63	44.461	6.587	57.042	43.499	43.999	Data
63	44.461	6.587	57.042	43.499	43.999	Data
64	44.461	6.587	57.042	43.499	43.999	Data
64	44.461	6.587	57.042	43.499	43.999	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 308: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.020	6.655	56.983	44.498	44.016	Data
8	44.945	6.644	56.975	44.498	44.016	Data
30	45.193	6.504	57.051	44.493	44.000	Data
30	45.188	6.500	57.039	44.491	44.000	Data
30	45.188	6.567	57.010	44.496	44.063	Data
30	44.945	6.644	56.975	44.498	44.016	Data
30	45.428	6.531	57.065	44.504	44.004	Data
30	45.312	6.533	57.014	44.494	44.063	Data
30	45.020	6.655	56.983	44.498	44.016	Data
30	44.148	6.602	57.050	44.497	44.000	Data
30	44.828	6.589	57.045	44.497	44.000	Data
30	45.102	6.522	57.059	44.504	44.003	Data
42	45.428	6.531	57.065	44.504	44.004	Data
42	45.102	6.522	57.059	44.504	44.003	Data
43	45.428	6.531	57.065	44.504	44.004	Data
43	45.102	6.522	57.059	44.504	44.003	Data
44	45.428	6.531	57.065	44.504	44.004	Data
44	45.102	6.522	57.059	44.504	44.003	Data
45	45.428	6.531	57.065	44.504	44.004	Data
45	45.102	6.522	57.059	44.504	44.003	Data
46.5	44.945	6.644	56.975	44.498	44.016	Data
46.5	45.020	6.655	56.983	44.498	44.016	Data
48	45.188	6.500	57.039	44.491	44.000	Data
48	45.193	6.504	57.051	44.493	44.000	Data
49	45.188	6.500	57.039	44.491	44.000	Data
49	45.193	6.504	57.051	44.493	44.000	Data
50	45.188	6.500	57.039	44.491	44.000	Data
50	45.193	6.504	57.051	44.493	44.000	Data
51	45.188	6.500	57.039	44.491	44.000	Data
51	45.193	6.504	57.051	44.493	44.000	Data
52.5	44.945	6.644	56.975	44.498	44.016	Data
52.5	45.020	6.655	56.983	44.498	44.016	Data
54	45.188	6.567	57.010	44.496	44.063	Data
54	45.312	6.533	57.014	44.494	44.063	Data
55	45.188	6.567	57.010	44.496	44.063	Data
55	45.312	6.533	57.014	44.494	44.063	Data
56	45.188	6.567	57.010	44.496	44.063	Data
56	45.312	6.533	57.014	44.494	44.063	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	45.188	6.567	57.010	44.496	44.063	Data
57	45.312	6.533	57.014	44.494	44.063	Data
58.5	45.020	6.655	56.983	44.498	44.016	Data
58.5	44.945	6.644	56.975	44.498	44.016	Data
60.5	44.148	6.602	57.050	44.497	44.000	Data
60.5	44.828	6.589	57.045	44.497	44.000	Data
61.75	44.148	6.602	57.050	44.497	44.000	Data
61.75	44.828	6.589	57.045	44.497	44.000	Data
63	44.148	6.602	57.050	44.497	44.000	Data
63	44.828	6.589	57.045	44.497	44.000	Data
64	44.148	6.602	57.050	44.497	44.000	Data
64	44.828	6.589	57.045	44.497	44.000	Data

Table 309: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.431	6.627	56.991	45.496	44.008	Data
8	44.431	6.627	56.991	45.496	44.008	Data
30	45.103	6.519	57.060	45.492	44.002	Data
30	45.237	6.529	57.044	45.482	43.998	Data
30	44.431	6.627	56.991	45.496	44.008	Data
30	44.431	6.627	56.991	45.496	44.008	Data
30	44.984	6.530	57.049	45.481	43.998	Data
30	45.020	6.518	57.062	45.491	44.003	Data
30	44.989	6.542	57.006	45.496	44.064	Data
30	45.407	6.544	57.017	45.495	44.064	Data
30	44.846	6.573	57.044	45.498	44.000	Data
30	44.599	6.587	57.047	45.497	44.000	Data
42	45.103	6.519	57.060	45.492	44.002	Data
42	45.020	6.518	57.062	45.491	44.003	Data
43	45.103	6.519	57.060	45.492	44.002	Data
43	45.020	6.518	57.062	45.491	44.003	Data
44	45.103	6.519	57.060	45.492	44.002	Data
44	45.020	6.518	57.062	45.491	44.003	Data
45	45.103	6.519	57.060	45.492	44.002	Data
45	45.020	6.518	57.062	45.491	44.003	Data
46.5	44.431	6.627	56.991	45.496	44.008	Data
46.5	44.431	6.627	56.991	45.496	44.008	Data
48	45.237	6.529	57.044	45.482	43.998	Data
48	44.984	6.530	57.049	45.481	43.998	Data
49	45.237	6.529	57.044	45.482	43.998	Data
49	44.984	6.530	57.049	45.481	43.998	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	45.237	6.529	57.044	45.482	43.998	Data
50	44.984	6.530	57.049	45.481	43.998	Data
51	45.237	6.529	57.044	45.482	43.998	Data
51	44.984	6.530	57.049	45.481	43.998	Data
52.5	44.431	6.627	56.991	45.496	44.008	Data
52.5	44.431	6.627	56.991	45.496	44.008	Data
54	45.407	6.544	57.017	45.495	44.064	Data
54	44.989	6.542	57.006	45.496	44.064	Data
55	45.407	6.544	57.017	45.495	44.064	Data
55	44.989	6.542	57.006	45.496	44.064	Data
56	45.407	6.544	57.017	45.495	44.064	Data
56	44.989	6.542	57.006	45.496	44.064	Data
57	45.407	6.544	57.017	45.495	44.064	Data
57	44.989	6.542	57.006	45.496	44.064	Data
58.5	44.431	6.627	56.991	45.496	44.008	Data
58.5	44.431	6.627	56.991	45.496	44.008	Data
60.5	44.846	6.573	57.044	45.498	44.000	Data
60.5	44.599	6.587	57.047	45.497	44.000	Data
61.75	44.846	6.573	57.044	45.498	44.000	Data
61.75	44.599	6.587	57.047	45.497	44.000	Data
63	44.846	6.573	57.044	45.498	44.000	Data
63	44.599	6.587	57.047	45.497	44.000	Data
64	44.599	6.587	57.047	45.497	44.000	Data
64	44.846	6.573	57.044	45.498	44.000	Data

Table 310: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.373	6.613	57.002	46.51	44.005	Data
8	45.622	6.624	57.009	46.509	44.005	Data
8	45.653	6.644	57.006	46.496	44.003	Data
8	45.467	6.678	56.999	46.496	44.003	Data
30	45.117	6.529	57.054	46.483	43.998	Data
30	45.373	6.613	57.002	46.51	44.005	Data
30	44.652	6.577	57.047	46.496	44.000	Data
30	45.507	6.546	57.061	46.494	44.003	Data
30	44.604	6.551	57.028	46.495	44.010	Data
30	45.622	6.624	57.009	46.509	44.005	Data
30	45.120	6.567	57.019	46.496	44.006	Data
30	44.710	6.534	57.020	46.495	44.010	Data
30	45.467	6.678	56.999	46.496	44.003	Data
30	45.653	6.644	57.006	46.496	44.003	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.995	6.575	57.022	46.492	43.995	Data
30	45.162	6.479	57.055	46.483	43.998	Data
30	44.304	6.561	57.079	46.486	43.996	Data
30	45.173	6.533	57.017	46.5	44.065	Data
30	44.946	6.596	57.019	46.496	44.006	Data
30	45.451	6.558	57.065	46.494	44.002	Data
30	43.976	6.561	57.081	46.487	43.997	Data
30	44.978	6.575	57.026	46.492	43.995	Data
30	45.374	6.559	57.017	46.499	44.064	Data
30	44.438	6.596	57.052	46.495	44.000	Data
42	45.507	6.546	57.061	46.494	44.003	Data
42	45.120	6.567	57.019	46.496	44.006	Data
42	45.451	6.558	57.065	46.494	44.002	Data
42	44.946	6.596	57.019	46.496	44.006	Data
43	45.507	6.546	57.061	46.494	44.003	Data
43	45.120	6.567	57.019	46.496	44.006	Data
43	45.451	6.558	57.065	46.494	44.002	Data
43	44.946	6.596	57.019	46.496	44.006	Data
44	45.507	6.546	57.061	46.494	44.003	Data
44	45.120	6.567	57.019	46.496	44.006	Data
44	45.451	6.558	57.065	46.494	44.002	Data
44	44.946	6.596	57.019	46.496	44.006	Data
45	45.507	6.546	57.061	46.494	44.003	Data
45	45.451	6.558	57.065	46.494	44.002	Data
45	45.120	6.567	57.019	46.496	44.006	Data
45	44.946	6.596	57.019	46.496	44.006	Data
46.5	45.622	6.624	57.009	46.509	44.005	Data
46.5	45.373	6.613	57.002	46.51	44.005	Data
46.5	45.653	6.644	57.006	46.496	44.003	Data
46.5	45.467	6.678	56.999	46.496	44.003	Data
48	44.304	6.561	57.079	46.486	43.996	Data
48	45.117	6.529	57.054	46.483	43.998	Data
48	45.162	6.479	57.055	46.483	43.998	Data
48	43.976	6.561	57.081	46.487	43.997	Data
49	44.304	6.561	57.079	46.486	43.996	Data
49	45.117	6.529	57.054	46.483	43.998	Data
49	45.162	6.479	57.055	46.483	43.998	Data
49	43.976	6.561	57.081	46.487	43.997	Data
50	44.304	6.561	57.079	46.486	43.996	Data
50	45.117	6.529	57.054	46.483	43.998	Data
50	45.162	6.479	57.055	46.483	43.998	Data
50	43.976	6.561	57.081	46.487	43.997	Data
51	44.304	6.561	57.079	46.486	43.996	Data
51	45.117	6.529	57.054	46.483	43.998	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	45.162	6.479	57.055	46.483	43.998	Data
51	43.976	6.561	57.081	46.487	43.997	Data
52.5	45.622	6.624	57.009	46.509	44.005	Data
52.5	45.373	6.613	57.002	46.51	44.005	Data
52.5	45.653	6.644	57.006	46.496	44.003	Data
52.5	45.467	6.678	56.999	46.496	44.003	Data
54	44.978	6.575	57.026	46.492	43.995	Data
54	45.374	6.559	57.017	46.499	44.064	Data
54	45.173	6.533	57.017	46.5	44.065	Data
54	44.995	6.575	57.022	46.492	43.995	Data
55	44.978	6.575	57.026	46.492	43.995	Data
55	45.374	6.559	57.017	46.499	44.064	Data
55	45.173	6.533	57.017	46.5	44.065	Data
55	44.995	6.575	57.022	46.492	43.995	Data
56	44.978	6.575	57.026	46.492	43.995	Data
56	45.374	6.559	57.017	46.499	44.064	Data
56	45.173	6.533	57.017	46.5	44.065	Data
56	44.995	6.575	57.022	46.492	43.995	Data
57	44.978	6.575	57.026	46.492	43.995	Data
57	45.173	6.533	57.017	46.5	44.065	Data
57	45.374	6.559	57.017	46.499	44.064	Data
57	44.995	6.575	57.022	46.492	43.995	Data
58.5	45.373	6.613	57.002	46.51	44.005	Data
58.5	45.653	6.644	57.006	46.496	44.003	Data
58.5	45.622	6.624	57.009	46.509	44.005	Data
58.5	45.467	6.678	56.999	46.496	44.003	Data
60.5	44.710	6.534	57.020	46.495	44.010	Data
60.5	44.604	6.551	57.028	46.495	44.010	Data
60.5	44.438	6.596	57.052	46.495	44.000	Data
60.5	44.652	6.577	57.047	46.496	44.000	Data
61.75	44.710	6.534	57.020	46.495	44.010	Data
61.75	44.604	6.551	57.028	46.495	44.010	Data
61.75	44.438	6.596	57.052	46.495	44.000	Data
61.75	44.652	6.577	57.047	46.496	44.000	Data
63	44.604	6.551	57.028	46.495	44.010	Data
63	44.710	6.534	57.020	46.495	44.010	Data
63	44.438	6.596	57.052	46.495	44.000	Data
63	44.652	6.577	57.047	46.496	44.000	Data
64	44.710	6.534	57.020	46.495	44.010	Data
64	44.438	6.596	57.052	46.495	44.000	Data
64	44.604	6.551	57.028	46.495	44.010	Data
64	44.652	6.577	57.047	46.496	44.000	Data

Table 311: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.766	6.548	57.050	47.493	43.997	Data
30	44.031	6.578	57.045	47.492	44.000	Data
30	45.138	6.560	57.064	47.498	44.003	Data
30	45.098	6.495	57.055	47.492	43.998	Data
30	45.138	6.564	57.061	47.498	44.003	Data
30	44.248	6.567	57.040	47.493	44.000	Data
30	45.092	6.551	57.015	47.495	44.064	Data
30	45.341	6.531	57.011	47.496	44.063	Data
42	45.138	6.560	57.064	47.498	44.003	Data
42	45.138	6.564	57.061	47.498	44.003	Data
43	45.138	6.560	57.064	47.498	44.003	Data
43	45.138	6.564	57.061	47.498	44.003	Data
44	45.138	6.560	57.064	47.498	44.003	Data
44	45.138	6.564	57.061	47.498	44.003	Data
45	45.138	6.560	57.064	47.498	44.003	Data
45	45.138	6.564	57.061	47.498	44.003	Data
48	45.098	6.495	57.055	47.492	43.998	Data
48	45.766	6.548	57.050	47.493	43.997	Data
49	45.098	6.495	57.055	47.492	43.998	Data
49	45.766	6.548	57.050	47.493	43.997	Data
50	45.098	6.495	57.055	47.492	43.998	Data
50	45.766	6.548	57.050	47.493	43.997	Data
51	45.098	6.495	57.055	47.492	43.998	Data
51	45.766	6.548	57.050	47.493	43.997	Data
54	45.092	6.551	57.015	47.495	44.064	Data
54	45.341	6.531	57.011	47.496	44.063	Data
55	45.092	6.551	57.015	47.495	44.064	Data
55	45.341	6.531	57.011	47.496	44.063	Data
56	45.092	6.551	57.015	47.495	44.064	Data
56	45.341	6.531	57.011	47.496	44.063	Data
57	45.092	6.551	57.015	47.495	44.064	Data
57	45.341	6.531	57.011	47.496	44.063	Data
60.5	44.031	6.578	57.045	47.492	44.000	Data
60.5	44.248	6.567	57.040	47.493	44.000	Data
61.75	44.031	6.578	57.045	47.492	44.000	Data
61.75	44.248	6.567	57.040	47.493	44.000	Data
63	44.031	6.578	57.045	47.492	44.000	Data
63	44.248	6.567	57.040	47.493	44.000	Data
64	44.031	6.578	57.045	47.492	44.000	Data
64	44.248	6.567	57.040	47.493	44.000	Data

Table 312: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.283	6.511	57.049	48.499	43.998	Data
30	45.192	6.551	57.061	48.507	44.003	Data
30	44.983	6.518	57.060	48.507	44.003	Data
30	44.842	6.560	57.013	48.498	44.063	Data
30	45.113	6.519	57.053	48.499	43.998	Data
30	45.026	6.559	57.013	48.499	44.064	Data
30	44.414	6.560	57.041	48.503	44.000	Data
30	44.528	6.587	57.050	48.502	44.000	Data
42	44.983	6.518	57.060	48.507	44.003	Data
42	45.192	6.551	57.061	48.507	44.003	Data
43	44.983	6.518	57.060	48.507	44.003	Data
43	45.192	6.551	57.061	48.507	44.003	Data
44	44.983	6.518	57.060	48.507	44.003	Data
44	45.192	6.551	57.061	48.507	44.003	Data
45	44.983	6.518	57.060	48.507	44.003	Data
45	45.192	6.551	57.061	48.507	44.003	Data
48	45.283	6.511	57.049	48.499	43.998	Data
48	45.113	6.519	57.053	48.499	43.998	Data
49	45.283	6.511	57.049	48.499	43.998	Data
49	45.113	6.519	57.053	48.499	43.998	Data
50	45.283	6.511	57.049	48.499	43.998	Data
50	45.113	6.519	57.053	48.499	43.998	Data
51	45.283	6.511	57.049	48.499	43.998	Data
51	45.113	6.519	57.053	48.499	43.998	Data
54	45.026	6.559	57.013	48.499	44.064	Data
54	44.842	6.560	57.013	48.498	44.063	Data
55	45.026	6.559	57.013	48.499	44.064	Data
55	44.842	6.560	57.013	48.498	44.063	Data
56	45.026	6.559	57.013	48.499	44.064	Data
56	44.842	6.560	57.013	48.498	44.063	Data
57	45.026	6.559	57.013	48.499	44.064	Data
57	44.842	6.560	57.013	48.498	44.063	Data
60.5	44.528	6.587	57.050	48.502	44.000	Data
60.5	44.414	6.560	57.041	48.503	44.000	Data
61.75	44.528	6.587	57.050	48.502	44.000	Data
61.75	44.414	6.560	57.041	48.503	44.000	Data
63	44.528	6.587	57.050	48.502	44.000	Data
63	44.414	6.560	57.041	48.503	44.000	Data
64	44.528	6.587	57.050	48.502	44.000	Data
64	44.414	6.560	57.041	48.503	44.000	Data

Table 313: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.726	6.551	57.071	49.505	44.003	Data
30	45.621	6.587	57.002	49.497	44.063	Data
30	45.282	6.531	57.007	49.497	44.063	Data
30	45.252	6.500	57.048	49.498	43.998	Data
30	45.256	6.523	57.052	49.499	43.998	Data
30	45.141	6.554	57.061	49.505	44.002	Data
30	44.712	6.597	57.050	49.497	44.000	Data
30	44.908	6.570	57.049	49.498	44.000	Data
42	45.726	6.551	57.071	49.505	44.003	Data
42	45.141	6.554	57.061	49.505	44.002	Data
43	45.726	6.551	57.071	49.505	44.003	Data
43	45.141	6.554	57.061	49.505	44.002	Data
44	45.726	6.551	57.071	49.505	44.003	Data
44	45.141	6.554	57.061	49.505	44.002	Data
45	45.726	6.551	57.071	49.505	44.003	Data
45	45.141	6.554	57.061	49.505	44.002	Data
48	45.252	6.500	57.048	49.498	43.998	Data
48	45.256	6.523	57.052	49.499	43.998	Data
49	45.252	6.500	57.048	49.498	43.998	Data
49	45.256	6.523	57.052	49.499	43.998	Data
50	45.252	6.500	57.048	49.498	43.998	Data
50	45.256	6.523	57.052	49.499	43.998	Data
51	45.252	6.500	57.048	49.498	43.998	Data
51	45.256	6.523	57.052	49.499	43.998	Data
54	45.282	6.531	57.007	49.497	44.063	Data
54	45.621	6.587	57.002	49.497	44.063	Data
55	45.282	6.531	57.007	49.497	44.063	Data
55	45.621	6.587	57.002	49.497	44.063	Data
56	45.282	6.531	57.007	49.497	44.063	Data
56	45.621	6.587	57.002	49.497	44.063	Data
57	45.282	6.531	57.007	49.497	44.063	Data
57	45.621	6.587	57.002	49.497	44.063	Data
60.5	44.712	6.597	57.050	49.497	44.000	Data
60.5	44.908	6.570	57.049	49.498	44.000	Data
61.75	44.712	6.597	57.050	49.497	44.000	Data
61.75	44.908	6.570	57.049	49.498	44.000	Data
63	44.712	6.597	57.050	49.497	44.000	Data
63	44.908	6.570	57.049	49.498	44.000	Data
64	44.908	6.570	57.049	49.498	44.000	Data
64	44.712	6.597	57.050	49.497	44.000	Data

Table 314: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.224	6.488	57.048	50.497	43.998	Data
30	45.479	6.577	57.010	50.494	44.063	Data
30	45.347	6.529	57.071	50.51	44.003	Data
30	44.893	6.597	57.041	50.505	44.001	Data
30	44.938	6.548	57.051	50.499	43.998	Data
30	45.090	6.534	57.007	50.494	44.064	Data
30	45.289	6.532	57.067	50.511	44.003	Data
30	44.897	6.574	57.050	50.503	44.000	Data
42	45.347	6.529	57.071	50.51	44.003	Data
42	45.289	6.532	57.067	50.511	44.003	Data
43	45.347	6.529	57.071	50.51	44.003	Data
43	45.289	6.532	57.067	50.511	44.003	Data
44	45.289	6.532	57.067	50.511	44.003	Data
44	45.347	6.529	57.071	50.51	44.003	Data
45	45.289	6.532	57.067	50.511	44.003	Data
45	45.347	6.529	57.071	50.51	44.003	Data
48	45.224	6.488	57.048	50.497	43.998	Data
48	44.938	6.548	57.051	50.499	43.998	Data
49	45.224	6.488	57.048	50.497	43.998	Data
49	44.938	6.548	57.051	50.499	43.998	Data
50	45.224	6.488	57.048	50.497	43.998	Data
50	44.938	6.548	57.051	50.499	43.998	Data
51	45.224	6.488	57.048	50.497	43.998	Data
51	44.938	6.548	57.051	50.499	43.998	Data
54	45.479	6.577	57.010	50.494	44.063	Data
54	45.090	6.534	57.007	50.494	44.064	Data
55	45.479	6.577	57.010	50.494	44.063	Data
55	45.090	6.534	57.007	50.494	44.064	Data
56	45.479	6.577	57.010	50.494	44.063	Data
56	45.090	6.534	57.007	50.494	44.064	Data
57	45.479	6.577	57.010	50.494	44.063	Data
57	45.090	6.534	57.007	50.494	44.064	Data
60.5	44.893	6.597	57.041	50.505	44.001	Data
60.5	44.897	6.574	57.050	50.503	44.000	Data
61.75	44.893	6.597	57.041	50.505	44.001	Data
61.75	44.897	6.574	57.050	50.503	44.000	Data
63	44.893	6.597	57.041	50.505	44.001	Data
63	44.897	6.574	57.050	50.503	44.000	Data
64	44.893	6.597	57.041	50.505	44.001	Data
64	44.897	6.574	57.050	50.503	44.000	Data

Table 315: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.349	6.550	57.067	51.502	44.003	Data
30	44.937	6.521	57.005	51.494	44.063	Data
30	45.327	6.520	57.041	51.497	43.998	Data
30	45.049	6.561	57.011	51.494	44.063	Data
30	44.981	6.597	57.046	51.499	44.001	Data
30	45.230	6.543	57.050	51.496	43.998	Data
30	45.735	6.541	57.069	51.504	44.003	Data
30	44.682	6.605	57.047	51.5	44.000	Data
42	45.349	6.550	57.067	51.502	44.003	Data
42	45.735	6.541	57.069	51.504	44.003	Data
43	45.349	6.550	57.067	51.502	44.003	Data
43	45.735	6.541	57.069	51.504	44.003	Data
44	45.349	6.550	57.067	51.502	44.003	Data
44	45.735	6.541	57.069	51.504	44.003	Data
45	45.349	6.550	57.067	51.502	44.003	Data
45	45.735	6.541	57.069	51.504	44.003	Data
48	45.327	6.520	57.041	51.497	43.998	Data
48	45.230	6.543	57.050	51.496	43.998	Data
49	45.327	6.520	57.041	51.497	43.998	Data
49	45.230	6.543	57.050	51.496	43.998	Data
50	45.327	6.520	57.041	51.497	43.998	Data
50	45.230	6.543	57.050	51.496	43.998	Data
51	45.327	6.520	57.041	51.497	43.998	Data
51	45.230	6.543	57.050	51.496	43.998	Data
54	44.937	6.521	57.005	51.494	44.063	Data
54	45.049	6.561	57.011	51.494	44.063	Data
55	44.937	6.521	57.005	51.494	44.063	Data
55	45.049	6.561	57.011	51.494	44.063	Data
56	44.937	6.521	57.005	51.494	44.063	Data
56	45.049	6.561	57.011	51.494	44.063	Data
57	44.937	6.521	57.005	51.494	44.063	Data
57	45.049	6.561	57.011	51.494	44.063	Data
60.5	44.682	6.605	57.047	51.5	44.000	Data
60.5	44.981	6.597	57.046	51.499	44.001	Data
61.75	44.682	6.605	57.047	51.5	44.000	Data
61.75	44.981	6.597	57.046	51.499	44.001	Data
63	44.981	6.597	57.046	51.499	44.001	Data
63	44.682	6.605	57.047	51.5	44.000	Data
64	44.981	6.597	57.046	51.499	44.001	Data
64	44.682	6.605	57.047	51.5	44.000	Data

Table 316: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.154	6.612	57.010	52.497	43.995	Data
8	44.729	6.589	57.007	52.496	43.995	Data
30	45.485	6.532	57.065	52.504	44.003	Data
30	44.985	6.546	57.004	52.509	44.063	Data
30	44.297	6.597	57.017	52.503	44.005	Data
30	45.028	6.539	57.006	52.509	44.063	Data
30	45.154	6.612	57.010	52.497	43.995	Data
30	44.246	6.554	57.075	52.496	43.998	Data
30	45.091	6.589	57.036	52.506	43.983	Data
30	44.578	6.566	57.020	52.504	44.006	Data
30	44.729	6.589	57.007	52.496	43.995	Data
30	45.176	6.599	57.037	52.507	43.983	Data
30	45.475	6.522	57.050	52.497	43.999	Data
30	44.802	6.576	57.047	52.493	44.001	Data
30	45.851	6.518	57.069	52.503	44.002	Data
30	44.567	6.541	57.023	52.492	43.992	Data
30	44.968	6.550	57.024	52.491	43.992	Data
30	45.113	6.517	57.051	52.497	43.997	Data
30	44.122	6.640	57.048	52.492	44.001	Data
30	43.731	6.573	57.076	52.495	43.998	Data
42	45.851	6.518	57.069	52.503	44.002	Data
42	44.297	6.597	57.017	52.503	44.005	Data
42	45.485	6.532	57.065	52.504	44.003	Data
42	44.578	6.566	57.020	52.504	44.006	Data
43	45.851	6.518	57.069	52.503	44.002	Data
43	44.297	6.597	57.017	52.503	44.005	Data
43	45.485	6.532	57.065	52.504	44.003	Data
43	44.578	6.566	57.020	52.504	44.006	Data
44	45.851	6.518	57.069	52.503	44.002	Data
44	44.297	6.597	57.017	52.503	44.005	Data
44	45.485	6.532	57.065	52.504	44.003	Data
44	44.578	6.566	57.020	52.504	44.006	Data
45	45.851	6.518	57.069	52.503	44.002	Data
45	44.297	6.597	57.017	52.503	44.005	Data
45	45.485	6.532	57.065	52.504	44.003	Data
45	44.578	6.566	57.020	52.504	44.006	Data
46.5	44.729	6.589	57.007	52.496	43.995	Data
46.5	45.154	6.612	57.010	52.497	43.995	Data
48	44.246	6.554	57.075	52.496	43.998	Data
48	45.475	6.522	57.050	52.497	43.999	Data
48	45.113	6.517	57.051	52.497	43.997	Data
48	43.731	6.573	57.076	52.495	43.998	Data
49	44.246	6.554	57.075	52.496	43.998	Data
49	45.475	6.522	57.050	52.497	43.999	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
49	45.113	6.517	57.051	52.497	43.997	Data
49	43.731	6.573	57.076	52.495	43.998	Data
50	44.246	6.554	57.075	52.496	43.998	Data
50	45.475	6.522	57.050	52.497	43.999	Data
50	45.113	6.517	57.051	52.497	43.997	Data
50	43.731	6.573	57.076	52.495	43.998	Data
51	44.246	6.554	57.075	52.496	43.998	Data
51	45.475	6.522	57.050	52.497	43.999	Data
51	45.113	6.517	57.051	52.497	43.997	Data
51	43.731	6.573	57.076	52.495	43.998	Data
52.5	44.729	6.589	57.007	52.496	43.995	Data
52.5	45.154	6.612	57.010	52.497	43.995	Data
54	45.091	6.589	57.036	52.506	43.983	Data
54	44.985	6.546	57.004	52.509	44.063	Data
54	45.176	6.599	57.037	52.507	43.983	Data
54	45.028	6.539	57.006	52.509	44.063	Data
55	45.091	6.589	57.036	52.506	43.983	Data
55	44.985	6.546	57.004	52.509	44.063	Data
55	45.176	6.599	57.037	52.507	43.983	Data
55	45.028	6.539	57.006	52.509	44.063	Data
56	45.091	6.589	57.036	52.506	43.983	Data
56	44.985	6.546	57.004	52.509	44.063	Data
56	45.176	6.599	57.037	52.507	43.983	Data
56	45.028	6.539	57.006	52.509	44.063	Data
57	45.091	6.589	57.036	52.506	43.983	Data
57	44.985	6.546	57.004	52.509	44.063	Data
57	45.176	6.599	57.037	52.507	43.983	Data
57	45.028	6.539	57.006	52.509	44.063	Data
58.5	44.729	6.589	57.007	52.496	43.995	Data
58.5	45.154	6.612	57.010	52.497	43.995	Data
60.5	44.968	6.550	57.024	52.491	43.992	Data
60.5	44.122	6.640	57.048	52.492	44.001	Data
60.5	44.802	6.576	57.047	52.493	44.001	Data
60.5	44.567	6.541	57.023	52.492	43.992	Data
61.75	44.968	6.550	57.024	52.491	43.992	Data
61.75	44.122	6.640	57.048	52.492	44.001	Data
61.75	44.802	6.576	57.047	52.493	44.001	Data
61.75	44.567	6.541	57.023	52.492	43.992	Data
63	44.968	6.550	57.024	52.491	43.992	Data
63	44.122	6.640	57.048	52.492	44.001	Data
63	44.802	6.576	57.047	52.493	44.001	Data
63	44.567	6.541	57.023	52.492	43.992	Data
64	44.968	6.550	57.024	52.491	43.992	Data
64	44.122	6.640	57.048	52.492	44.001	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	44.802	6.576	57.047	52.493	44.001	Data
64	44.567	6.541	57.023	52.492	43.992	Data

Table 317: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.469	6.550	57.010	53.501	44.063	Data
30	45.555	6.474	57.051	53.49	43.998	Data
30	45.661	6.530	57.049	53.49	43.998	Data
30	45.705	6.530	57.065	53.501	44.003	Data
30	44.169	6.602	57.047	53.495	44.001	Data
30	45.538	6.547	57.001	53.5	44.063	Data
30	45.710	6.554	57.060	53.5	44.002	Data
30	43.752	6.589	57.052	53.494	44.001	Data
42	45.710	6.554	57.060	53.5	44.002	Data
42	45.705	6.530	57.065	53.501	44.003	Data
43	45.710	6.554	57.060	53.5	44.002	Data
43	45.705	6.530	57.065	53.501	44.003	Data
44	45.710	6.554	57.060	53.5	44.002	Data
44	45.705	6.530	57.065	53.501	44.003	Data
45	45.710	6.554	57.060	53.5	44.002	Data
45	45.705	6.530	57.065	53.501	44.003	Data
48	45.555	6.474	57.051	53.49	43.998	Data
48	45.661	6.530	57.049	53.49	43.998	Data
49	45.661	6.530	57.049	53.49	43.998	Data
49	45.555	6.474	57.051	53.49	43.998	Data
50	45.661	6.530	57.049	53.49	43.998	Data
50	45.555	6.474	57.051	53.49	43.998	Data
51	45.661	6.530	57.049	53.49	43.998	Data
51	45.555	6.474	57.051	53.49	43.998	Data
54	45.538	6.547	57.001	53.5	44.063	Data
54	45.469	6.550	57.010	53.501	44.063	Data
55	45.538	6.547	57.001	53.5	44.063	Data
55	45.469	6.550	57.010	53.501	44.063	Data
56	45.538	6.547	57.001	53.5	44.063	Data
56	45.469	6.550	57.010	53.501	44.063	Data
57	45.538	6.547	57.001	53.5	44.063	Data
57	45.469	6.550	57.010	53.501	44.063	Data
60.5	44.169	6.602	57.047	53.495	44.001	Data
60.5	43.752	6.589	57.052	53.494	44.001	Data
61.75	44.169	6.602	57.047	53.495	44.001	Data
61.75	43.752	6.589	57.052	53.494	44.001	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	44.169	6.602	57.047	53.495	44.001	Data
63	43.752	6.589	57.052	53.494	44.001	Data
64	44.169	6.602	57.047	53.495	44.001	Data
64	43.752	6.589	57.052	53.494	44.001	Data

Table 318: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.850	6.563	56.966	54.501	44.148	Data
8	45.062	6.625	56.960	54.501	44.149	Data
30	45.728	6.548	57.066	54.492	44.003	Data
30	44.125	6.584	57.052	54.492	44.001	Data
30	45.360	6.554	57.052	54.488	43.998	Data
30	45.318	6.536	57.004	54.493	44.063	Data
30	45.938	6.529	57.049	54.488	43.998	Data
30	45.367	6.551	57.003	54.492	44.063	Data
30	44.329	6.597	57.046	54.494	44.001	Data
30	44.850	6.563	56.966	54.501	44.148	Data
30	45.726	6.549	57.060	54.491	44.003	Data
30	45.062	6.625	56.960	54.501	44.149	Data
42	45.728	6.548	57.066	54.492	44.003	Data
42	45.726	6.549	57.060	54.491	44.003	Data
43	45.728	6.548	57.066	54.492	44.003	Data
43	45.726	6.549	57.060	54.491	44.003	Data
44	45.728	6.548	57.066	54.492	44.003	Data
44	45.726	6.549	57.060	54.491	44.003	Data
45	45.728	6.548	57.066	54.492	44.003	Data
45	45.726	6.549	57.060	54.491	44.003	Data
46.5	44.850	6.563	56.966	54.501	44.148	Data
46.5	45.062	6.625	56.960	54.501	44.149	Data
48	45.360	6.554	57.052	54.488	43.998	Data
48	45.938	6.529	57.049	54.488	43.998	Data
49	45.360	6.554	57.052	54.488	43.998	Data
49	45.938	6.529	57.049	54.488	43.998	Data
50	45.360	6.554	57.052	54.488	43.998	Data
50	45.938	6.529	57.049	54.488	43.998	Data
51	45.360	6.554	57.052	54.488	43.998	Data
51	45.938	6.529	57.049	54.488	43.998	Data
52.5	44.850	6.563	56.966	54.501	44.148	Data
52.5	45.062	6.625	56.960	54.501	44.149	Data
54	45.367	6.551	57.003	54.492	44.063	Data
54	45.318	6.536	57.004	54.493	44.063	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	45.367	6.551	57.003	54.492	44.063	Data
55	45.318	6.536	57.004	54.493	44.063	Data
56	45.367	6.551	57.003	54.492	44.063	Data
56	45.318	6.536	57.004	54.493	44.063	Data
57	45.367	6.551	57.003	54.492	44.063	Data
57	45.318	6.536	57.004	54.493	44.063	Data
58.5	44.850	6.563	56.966	54.501	44.148	Data
58.5	45.062	6.625	56.960	54.501	44.149	Data
60.5	44.125	6.584	57.052	54.492	44.001	Data
60.5	44.329	6.597	57.046	54.494	44.001	Data
61.75	44.125	6.584	57.052	54.492	44.001	Data
61.75	44.329	6.597	57.046	54.494	44.001	Data
63	44.125	6.584	57.052	54.492	44.001	Data
63	44.329	6.597	57.046	54.494	44.001	Data
64	44.125	6.584	57.052	54.492	44.001	Data
64	44.329	6.597	57.046	54.494	44.001	Data

Table 319: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.634	6.610	56.964	55.499	44.144	Data
8	45.367	6.572	56.965	55.5	44.144	Data
30	45.634	6.610	56.964	55.499	44.144	Data
30	45.499	6.547	57.003	55.504	44.063	Data
30	45.231	6.567	57.012	55.505	44.063	Data
30	45.753	6.551	57.062	55.5	44.003	Data
30	45.367	6.572	56.965	55.5	44.144	Data
30	45.963	6.506	57.051	55.489	43.998	Data
30	45.717	6.530	57.048	55.489	43.998	Data
30	44.310	6.581	57.045	55.494	44.001	Data
30	45.849	6.532	57.057	55.5	44.002	Data
30	44.468	6.554	57.050	55.495	44.000	Data
42	45.849	6.532	57.057	55.5	44.002	Data
42	45.753	6.551	57.062	55.5	44.003	Data
43	45.849	6.532	57.057	55.5	44.002	Data
43	45.753	6.551	57.062	55.5	44.003	Data
44	45.849	6.532	57.057	55.5	44.002	Data
44	45.753	6.551	57.062	55.5	44.003	Data
45	45.849	6.532	57.057	55.5	44.002	Data
45	45.753	6.551	57.062	55.5	44.003	Data
46.5	45.634	6.610	56.964	55.499	44.144	Data
46.5	45.367	6.572	56.965	55.5	44.144	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	45.717	6.530	57.048	55.489	43.998	Data
48	45.963	6.506	57.051	55.489	43.998	Data
49	45.717	6.530	57.048	55.489	43.998	Data
49	45.963	6.506	57.051	55.489	43.998	Data
50	45.717	6.530	57.048	55.489	43.998	Data
50	45.963	6.506	57.051	55.489	43.998	Data
51	45.717	6.530	57.048	55.489	43.998	Data
51	45.963	6.506	57.051	55.489	43.998	Data
52.5	45.367	6.572	56.965	55.5	44.144	Data
52.5	45.634	6.610	56.964	55.499	44.144	Data
54	45.231	6.567	57.012	55.505	44.063	Data
54	45.499	6.547	57.003	55.504	44.063	Data
55	45.231	6.567	57.012	55.505	44.063	Data
55	45.499	6.547	57.003	55.504	44.063	Data
56	45.231	6.567	57.012	55.505	44.063	Data
56	45.499	6.547	57.003	55.504	44.063	Data
57	45.231	6.567	57.012	55.505	44.063	Data
57	45.499	6.547	57.003	55.504	44.063	Data
58.5	45.367	6.572	56.965	55.5	44.144	Data
58.5	45.634	6.610	56.964	55.499	44.144	Data
60.5	44.310	6.581	57.045	55.494	44.001	Data
60.5	44.468	6.554	57.050	55.495	44.000	Data
61.75	44.310	6.581	57.045	55.494	44.001	Data
61.75	44.468	6.554	57.050	55.495	44.000	Data
63	44.468	6.554	57.050	55.495	44.000	Data
63	44.310	6.581	57.045	55.494	44.001	Data
64	44.468	6.554	57.050	55.495	44.000	Data
64	44.310	6.581	57.045	55.494	44.001	Data

Table 320: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.462	6.612	56.962	56.497	44.140	Data
8	45.068	6.598	56.971	56.498	44.140	Data
30	45.792	6.530	57.052	56.497	43.998	Data
30	45.198	6.557	57.008	56.498	44.062	Data
30	45.653	6.550	57.058	56.496	44.003	Data
30	45.462	6.612	56.962	56.497	44.140	Data
30	45.798	6.522	57.056	56.494	43.998	Data
30	44.778	6.595	57.047	56.496	44.001	Data
30	45.686	6.546	57.060	56.496	44.003	Data
30	45.445	6.526	57.008	56.499	44.062	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.662	6.577	57.052	56.497	44.001	Data
30	45.068	6.598	56.971	56.498	44.140	Data
42	45.653	6.550	57.058	56.496	44.003	Data
42	45.686	6.546	57.060	56.496	44.003	Data
43	45.653	6.550	57.058	56.496	44.003	Data
43	45.686	6.546	57.060	56.496	44.003	Data
44	45.653	6.550	57.058	56.496	44.003	Data
44	45.686	6.546	57.060	56.496	44.003	Data
45	45.653	6.550	57.058	56.496	44.003	Data
45	45.686	6.546	57.060	56.496	44.003	Data
46.5	45.068	6.598	56.971	56.498	44.140	Data
46.5	45.462	6.612	56.962	56.497	44.140	Data
48	45.792	6.530	57.052	56.497	43.998	Data
48	45.798	6.522	57.056	56.494	43.998	Data
49	45.792	6.530	57.052	56.497	43.998	Data
49	45.798	6.522	57.056	56.494	43.998	Data
50	45.792	6.530	57.052	56.497	43.998	Data
50	45.798	6.522	57.056	56.494	43.998	Data
51	45.792	6.530	57.052	56.497	43.998	Data
51	45.798	6.522	57.056	56.494	43.998	Data
52.5	45.068	6.598	56.971	56.498	44.140	Data
52.5	45.462	6.612	56.962	56.497	44.140	Data
54	45.445	6.526	57.008	56.499	44.062	Data
54	45.198	6.557	57.008	56.498	44.062	Data
55	45.445	6.526	57.008	56.499	44.062	Data
55	45.198	6.557	57.008	56.498	44.062	Data
56	45.445	6.526	57.008	56.499	44.062	Data
56	45.198	6.557	57.008	56.498	44.062	Data
57	45.445	6.526	57.008	56.499	44.062	Data
57	45.198	6.557	57.008	56.498	44.062	Data
58.5	45.462	6.612	56.962	56.497	44.140	Data
58.5	45.068	6.598	56.971	56.498	44.140	Data
60.5	44.662	6.577	57.052	56.497	44.001	Data
60.5	44.778	6.595	57.047	56.496	44.001	Data
61.75	44.662	6.577	57.052	56.497	44.001	Data
61.75	44.778	6.595	57.047	56.496	44.001	Data
63	44.662	6.577	57.052	56.497	44.001	Data
63	44.778	6.595	57.047	56.496	44.001	Data
64	44.662	6.577	57.052	56.497	44.001	Data
64	44.778	6.595	57.047	56.496	44.001	Data

Table 321: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.113	6.615	56.958	57.507	44.136	Data
8	44.926	6.594	56.967	57.506	44.136	Data
30	44.926	6.594	56.967	57.506	44.136	Data
30	46.154	6.541	57.058	57.514	44.003	Data
30	45.467	6.558	57.000	57.508	44.061	Data
30	45.862	6.496	57.055	57.504	43.998	Data
30	45.981	6.504	57.061	57.514	44.003	Data
30	45.694	6.536	57.047	57.504	43.998	Data
30	45.113	6.615	56.958	57.507	44.136	Data
30	45.382	6.542	57.008	57.508	44.061	Data
30	44.064	6.588	57.051	57.499	44.000	Data
30	44.601	6.590	57.048	57.5	44.001	Data
42	46.154	6.541	57.058	57.514	44.003	Data
42	45.981	6.504	57.061	57.514	44.003	Data
43	46.154	6.541	57.058	57.514	44.003	Data
43	45.981	6.504	57.061	57.514	44.003	Data
44	46.154	6.541	57.058	57.514	44.003	Data
44	45.981	6.504	57.061	57.514	44.003	Data
45	46.154	6.541	57.058	57.514	44.003	Data
45	45.981	6.504	57.061	57.514	44.003	Data
46.5	45.113	6.615	56.958	57.507	44.136	Data
46.5	44.926	6.594	56.967	57.506	44.136	Data
48	45.694	6.536	57.047	57.504	43.998	Data
48	45.862	6.496	57.055	57.504	43.998	Data
49	45.694	6.536	57.047	57.504	43.998	Data
49	45.862	6.496	57.055	57.504	43.998	Data
50	45.694	6.536	57.047	57.504	43.998	Data
50	45.862	6.496	57.055	57.504	43.998	Data
51	45.694	6.536	57.047	57.504	43.998	Data
51	45.862	6.496	57.055	57.504	43.998	Data
52.5	45.113	6.615	56.958	57.507	44.136	Data
52.5	44.926	6.594	56.967	57.506	44.136	Data
54	45.467	6.558	57.000	57.508	44.061	Data
54	45.382	6.542	57.008	57.508	44.061	Data
55	45.467	6.558	57.000	57.508	44.061	Data
55	45.382	6.542	57.008	57.508	44.061	Data
56	45.467	6.558	57.000	57.508	44.061	Data
56	45.382	6.542	57.008	57.508	44.061	Data
57	45.467	6.558	57.000	57.508	44.061	Data
57	45.382	6.542	57.008	57.508	44.061	Data
58.5	45.113	6.615	56.958	57.507	44.136	Data
58.5	44.926	6.594	56.967	57.506	44.136	Data
60.5	44.064	6.588	57.051	57.499	44.000	Data
60.5	44.601	6.590	57.048	57.5	44.001	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	44.064	6.588	57.051	57.499	44.000	Data
61.75	44.601	6.590	57.048	57.5	44.001	Data
63	44.064	6.588	57.051	57.499	44.000	Data
63	44.601	6.590	57.048	57.5	44.001	Data
64	44.064	6.588	57.051	57.499	44.000	Data
64	44.601	6.590	57.048	57.5	44.001	Data

Table 322: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.706	6.583	56.996	58.5	44.011	Data
8	45.232	6.647	56.985	58.501	44.011	Data
8	44.784	6.619	56.971	58.502	44.133	Data
8	44.984	6.592	56.967	58.502	44.132	Data
30	45.706	6.583	56.996	58.5	44.011	Data
30	44.784	6.619	56.971	58.502	44.133	Data
30	44.984	6.592	56.967	58.502	44.132	Data
30	45.715	6.520	57.050	58.507	43.998	Data
30	44.993	6.552	57.025	58.501	43.992	Data
30	45.650	6.603	57.042	58.502	43.992	Data
30	45.239	6.557	57.022	58.501	43.993	Data
30	45.197	6.580	57.040	58.501	43.992	Data
30	45.857	6.513	57.003	58.492	44.061	Data
30	44.740	6.562	57.032	58.501	44.002	Data
30	44.259	6.553	57.075	58.509	44.003	Data
30	46.006	6.555	57.061	58.516	44.003	Data
30	46.083	6.563	57.061	58.515	44.003	Data
30	43.849	6.569	57.080	58.51	44.003	Data
30	44.214	6.605	57.055	58.501	44.001	Data
30	45.232	6.647	56.985	58.501	44.011	Data
30	44.313	6.565	57.054	58.502	44.001	Data
30	45.116	6.543	57.003	58.493	44.061	Data
30	45.640	6.525	57.046	58.508	43.998	Data
30	44.752	6.603	57.024	58.499	44.003	Data
42	44.740	6.562	57.032	58.501	44.002	Data
42	46.006	6.555	57.061	58.516	44.003	Data
42	46.083	6.563	57.061	58.515	44.003	Data
42	44.752	6.603	57.024	58.499	44.003	Data
43	46.006	6.555	57.061	58.516	44.003	Data
43	44.740	6.562	57.032	58.501	44.002	Data
43	46.083	6.563	57.061	58.515	44.003	Data
43	44.752	6.603	57.024	58.499	44.003	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	46.006	6.555	57.061	58.516	44.003	Data
44	44.740	6.562	57.032	58.501	44.002	Data
44	46.083	6.563	57.061	58.515	44.003	Data
44	44.752	6.603	57.024	58.499	44.003	Data
45	46.006	6.555	57.061	58.516	44.003	Data
45	44.740	6.562	57.032	58.501	44.002	Data
45	46.083	6.563	57.061	58.515	44.003	Data
45	44.752	6.603	57.024	58.499	44.003	Data
46.5	44.984	6.592	56.967	58.502	44.132	Data
46.5	45.706	6.583	56.996	58.5	44.011	Data
46.5	44.784	6.619	56.971	58.502	44.133	Data
46.5	45.232	6.647	56.985	58.501	44.011	Data
48	44.259	6.553	57.075	58.509	44.003	Data
48	43.849	6.569	57.080	58.51	44.003	Data
48	45.640	6.525	57.046	58.508	43.998	Data
48	45.715	6.520	57.050	58.507	43.998	Data
49	44.259	6.553	57.075	58.509	44.003	Data
49	43.849	6.569	57.080	58.51	44.003	Data
49	45.640	6.525	57.046	58.508	43.998	Data
49	45.715	6.520	57.050	58.507	43.998	Data
50	44.259	6.553	57.075	58.509	44.003	Data
50	43.849	6.569	57.080	58.51	44.003	Data
50	45.640	6.525	57.046	58.508	43.998	Data
50	45.715	6.520	57.050	58.507	43.998	Data
51	43.849	6.569	57.080	58.51	44.003	Data
51	44.259	6.553	57.075	58.509	44.003	Data
51	45.640	6.525	57.046	58.508	43.998	Data
51	45.715	6.520	57.050	58.507	43.998	Data
52.5	45.706	6.583	56.996	58.5	44.011	Data
52.5	44.784	6.619	56.971	58.502	44.133	Data
52.5	44.984	6.592	56.967	58.502	44.132	Data
52.5	45.232	6.647	56.985	58.501	44.011	Data
54	45.650	6.603	57.042	58.502	43.992	Data
54	45.197	6.580	57.040	58.501	43.992	Data
54	45.857	6.513	57.003	58.492	44.061	Data
54	45.116	6.543	57.003	58.493	44.061	Data
55	45.650	6.603	57.042	58.502	43.992	Data
55	45.197	6.580	57.040	58.501	43.992	Data
55	45.857	6.513	57.003	58.492	44.061	Data
55	45.116	6.543	57.003	58.493	44.061	Data
56	45.650	6.603	57.042	58.502	43.992	Data
56	45.197	6.580	57.040	58.501	43.992	Data
56	45.857	6.513	57.003	58.492	44.061	Data
56	45.116	6.543	57.003	58.493	44.061	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	45.650	6.603	57.042	58.502	43.992	Data
57	45.857	6.513	57.003	58.492	44.061	Data
57	45.197	6.580	57.040	58.501	43.992	Data
57	45.116	6.543	57.003	58.493	44.061	Data
58.5	44.784	6.619	56.971	58.502	44.133	Data
58.5	45.706	6.583	56.996	58.5	44.011	Data
58.5	44.984	6.592	56.967	58.502	44.132	Data
58.5	45.232	6.647	56.985	58.501	44.011	Data
60.5	45.239	6.557	57.022	58.501	43.993	Data
60.5	44.993	6.552	57.025	58.501	43.992	Data
60.5	44.214	6.605	57.055	58.501	44.001	Data
60.5	44.313	6.565	57.054	58.502	44.001	Data
61.75	45.239	6.557	57.022	58.501	43.993	Data
61.75	44.993	6.552	57.025	58.501	43.992	Data
61.75	44.214	6.605	57.055	58.501	44.001	Data
61.75	44.313	6.565	57.054	58.502	44.001	Data
63	45.239	6.557	57.022	58.501	43.993	Data
63	44.993	6.552	57.025	58.501	43.992	Data
63	44.214	6.605	57.055	58.501	44.001	Data
63	44.313	6.565	57.054	58.502	44.001	Data
64	45.239	6.557	57.022	58.501	43.993	Data
64	44.993	6.552	57.025	58.501	43.992	Data
64	44.214	6.605	57.055	58.501	44.001	Data
64	44.313	6.565	57.054	58.502	44.001	Data

Table 323: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.193	6.600	57.011	59.5	44.128	Data
8	45.020	6.621	57.008	59.5	44.128	Data
30	46.099	6.558	57.061	59.51	44.003	Data
30	45.910	6.525	57.043	59.509	43.997	Data
30	45.193	6.600	57.011	59.5	44.128	Data
30	45.956	6.525	57.037	59.51	43.998	Data
30	45.385	6.556	56.994	59.505	44.061	Data
30	45.414	6.568	56.992	59.505	44.060	Data
30	45.020	6.621	57.008	59.5	44.128	Data
30	46.194	6.529	57.065	59.51	44.003	Data
30	44.785	6.601	57.047	59.504	44.001	Data
30	44.128	6.600	57.042	59.503	44.001	Data
42	46.099	6.558	57.061	59.51	44.003	Data
42	46.194	6.529	57.065	59.51	44.003	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	46.099	6.558	57.061	59.51	44.003	Data
43	46.194	6.529	57.065	59.51	44.003	Data
44	46.099	6.558	57.061	59.51	44.003	Data
44	46.194	6.529	57.065	59.51	44.003	Data
45	46.099	6.558	57.061	59.51	44.003	Data
45	46.194	6.529	57.065	59.51	44.003	Data
46.5	45.020	6.621	57.008	59.5	44.128	Data
46.5	45.193	6.600	57.011	59.5	44.128	Data
48	45.910	6.525	57.043	59.509	43.997	Data
48	45.956	6.525	57.037	59.51	43.998	Data
49	45.910	6.525	57.043	59.509	43.997	Data
49	45.956	6.525	57.037	59.51	43.998	Data
50	45.910	6.525	57.043	59.509	43.997	Data
50	45.956	6.525	57.037	59.51	43.998	Data
51	45.910	6.525	57.043	59.509	43.997	Data
51	45.956	6.525	57.037	59.51	43.998	Data
52.5	45.020	6.621	57.008	59.5	44.128	Data
52.5	45.193	6.600	57.011	59.5	44.128	Data
54	45.385	6.556	56.994	59.505	44.061	Data
54	45.414	6.568	56.992	59.505	44.060	Data
55	45.385	6.556	56.994	59.505	44.061	Data
55	45.414	6.568	56.992	59.505	44.060	Data
56	45.385	6.556	56.994	59.505	44.061	Data
56	45.414	6.568	56.992	59.505	44.060	Data
57	45.385	6.556	56.994	59.505	44.061	Data
57	45.414	6.568	56.992	59.505	44.060	Data
58.5	45.193	6.600	57.011	59.5	44.128	Data
58.5	45.020	6.621	57.008	59.5	44.128	Data
60.5	44.128	6.600	57.042	59.503	44.001	Data
60.5	44.785	6.601	57.047	59.504	44.001	Data
61.75	44.128	6.600	57.042	59.503	44.001	Data
61.75	44.785	6.601	57.047	59.504	44.001	Data
63	44.128	6.600	57.042	59.503	44.001	Data
63	44.785	6.601	57.047	59.504	44.001	Data
64	44.128	6.600	57.042	59.503	44.001	Data
64	44.785	6.601	57.047	59.504	44.001	Data

Table 324: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.000	6.603	56.999	60.492	44.121	Data
8	44.757	6.622	56.998	60.492	44.120	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.987	6.542	57.047	60.513	43.997	Data
30	45.645	6.522	57.053	60.514	43.998	Data
30	45.367	6.577	57.005	60.499	44.061	Data
30	44.690	6.588	57.045	60.509	44.001	Data
30	44.757	6.622	56.998	60.492	44.120	Data
30	46.271	6.536	57.064	60.516	44.002	Data
30	45.000	6.603	56.999	60.492	44.121	Data
30	44.528	6.584	57.051	60.51	44.001	Data
30	45.906	6.549	57.066	60.515	44.003	Data
30	45.399	6.567	56.996	60.499	44.060	Data
42	46.271	6.536	57.064	60.516	44.002	Data
42	45.906	6.549	57.066	60.515	44.003	Data
43	46.271	6.536	57.064	60.516	44.002	Data
43	45.906	6.549	57.066	60.515	44.003	Data
44	46.271	6.536	57.064	60.516	44.002	Data
44	45.906	6.549	57.066	60.515	44.003	Data
45	46.271	6.536	57.064	60.516	44.002	Data
45	45.906	6.549	57.066	60.515	44.003	Data
46.5	44.757	6.622	56.998	60.492	44.120	Data
46.5	45.000	6.603	56.999	60.492	44.121	Data
48	45.987	6.542	57.047	60.513	43.997	Data
48	45.645	6.522	57.053	60.514	43.998	Data
49	45.987	6.542	57.047	60.513	43.997	Data
49	45.645	6.522	57.053	60.514	43.998	Data
50	45.987	6.542	57.047	60.513	43.997	Data
50	45.645	6.522	57.053	60.514	43.998	Data
51	45.987	6.542	57.047	60.513	43.997	Data
51	45.645	6.522	57.053	60.514	43.998	Data
52.5	44.757	6.622	56.998	60.492	44.120	Data
52.5	45.000	6.603	56.999	60.492	44.121	Data
54	45.399	6.567	56.996	60.499	44.060	Data
54	45.367	6.577	57.005	60.499	44.061	Data
55	45.399	6.567	56.996	60.499	44.060	Data
55	45.367	6.577	57.005	60.499	44.061	Data
56	45.399	6.567	56.996	60.499	44.060	Data
56	45.367	6.577	57.005	60.499	44.061	Data
57	45.399	6.567	56.996	60.499	44.060	Data
57	45.367	6.577	57.005	60.499	44.061	Data
58.5	45.000	6.603	56.999	60.492	44.121	Data
58.5	44.757	6.622	56.998	60.492	44.120	Data
60.5	44.690	6.588	57.045	60.509	44.001	Data
60.5	44.528	6.584	57.051	60.51	44.001	Data
61.75	44.690	6.588	57.045	60.509	44.001	Data
61.75	44.528	6.584	57.051	60.51	44.001	Data

VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	44.690	6.588	57.045	60.509	44.001	Data
63	44.528	6.584	57.051	60.51	44.001	Data
64	44.528	6.584	57.051	60.51	44.001	Data
64	44.690	6.588	57.045	60.509	44.001	Data

Table 325: VG horizontal sweep: q=45 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)

D.25. Horizontal VG vortex sweep at height z=44, q=25, α_{VG}=4, α_W=7, SQ-tip

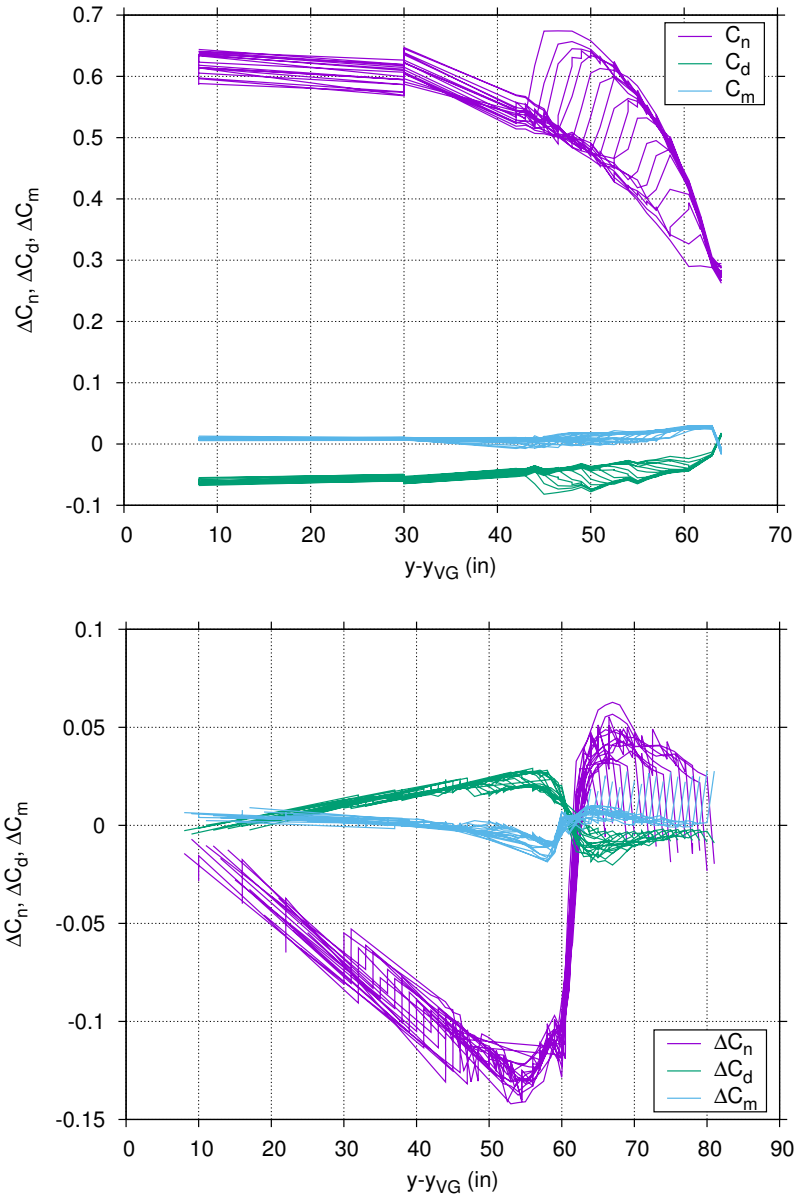

Figure 78. VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — (Data)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.606	6.679	56.971	43.499	44.016	Data
8	25.589	6.674	56.971	43.498	44.015	Data
30	25.606	6.679	56.971	43.499	44.016	Data
30	25.229	6.622	57.062	43.509	44.004	Data
30	24.987	6.597	57.062	43.507	44.005	Data
30	24.926	6.571	57.012	43.503	44.063	Data
30	25.162	6.584	57.059	43.505	43.996	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.589	6.674	56.971	43.498	44.015	Data
30	25.263	6.582	57.048	43.505	43.997	Data
30	25.149	6.563	57.012	43.501	44.063	Data
30	24.926	6.618	57.045	43.493	43.994	Data
30	25.215	6.616	57.047	43.493	43.994	Data
42	25.229	6.622	57.062	43.509	44.004	Data
42	24.987	6.597	57.062	43.507	44.005	Data
43	25.229	6.622	57.062	43.509	44.004	Data
43	24.987	6.597	57.062	43.507	44.005	Data
44	24.987	6.597	57.062	43.507	44.005	Data
44	25.229	6.622	57.062	43.509	44.004	Data
45	25.229	6.622	57.062	43.509	44.004	Data
45	24.987	6.597	57.062	43.507	44.005	Data
46.5	25.606	6.679	56.971	43.499	44.016	Data
46.5	25.589	6.674	56.971	43.498	44.015	Data
48	25.263	6.582	57.048	43.505	43.997	Data
48	25.162	6.584	57.059	43.505	43.996	Data
49	25.263	6.582	57.048	43.505	43.997	Data
49	25.162	6.584	57.059	43.505	43.996	Data
50	25.263	6.582	57.048	43.505	43.997	Data
50	25.162	6.584	57.059	43.505	43.996	Data
51	25.263	6.582	57.048	43.505	43.997	Data
51	25.162	6.584	57.059	43.505	43.996	Data
52.5	25.606	6.679	56.971	43.499	44.016	Data
52.5	25.589	6.674	56.971	43.498	44.015	Data
54	25.149	6.563	57.012	43.501	44.063	Data
54	24.926	6.571	57.012	43.503	44.063	Data
55	25.149	6.563	57.012	43.501	44.063	Data
55	24.926	6.571	57.012	43.503	44.063	Data
56	25.149	6.563	57.012	43.501	44.063	Data
56	24.926	6.571	57.012	43.503	44.063	Data
57	25.149	6.563	57.012	43.501	44.063	Data
57	24.926	6.571	57.012	43.503	44.063	Data
58.5	25.606	6.679	56.971	43.499	44.016	Data
58.5	25.589	6.674	56.971	43.498	44.015	Data
60.5	24.926	6.618	57.045	43.493	43.994	Data
60.5	25.215	6.616	57.047	43.493	43.994	Data
61.75	24.926	6.618	57.045	43.493	43.994	Data
61.75	25.215	6.616	57.047	43.493	43.994	Data
63	24.926	6.618	57.045	43.493	43.994	Data
63	25.215	6.616	57.047	43.493	43.994	Data
64	24.926	6.618	57.045	43.493	43.994	Data
64	25.215	6.616	57.047	43.493	43.994	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 326: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=43.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.962	6.658	56.979	44.499	44.017	Data
8	25.112	6.645	56.982	44.499	44.017	Data
30	25.112	6.645	56.982	44.499	44.017	Data
30	25.362	6.581	57.057	44.492	43.997	Data
30	24.962	6.658	56.979	44.499	44.017	Data
30	25.074	6.566	57.011	44.497	44.063	Data
30	25.135	6.590	57.056	44.491	43.997	Data
30	25.154	6.616	57.039	44.5	43.994	Data
30	25.207	6.633	57.046	44.499	43.994	Data
30	25.124	6.582	57.015	44.498	44.063	Data
30	24.866	6.594	57.057	44.504	44.005	Data
30	25.372	6.604	57.065	44.503	44.005	Data
42	24.866	6.594	57.057	44.504	44.005	Data
42	25.372	6.604	57.065	44.503	44.005	Data
43	24.866	6.594	57.057	44.504	44.005	Data
43	25.372	6.604	57.065	44.503	44.005	Data
44	24.866	6.594	57.057	44.504	44.005	Data
44	25.372	6.604	57.065	44.503	44.005	Data
45	24.866	6.594	57.057	44.504	44.005	Data
45	25.372	6.604	57.065	44.503	44.005	Data
46.5	25.112	6.645	56.982	44.499	44.017	Data
46.5	24.962	6.658	56.979	44.499	44.017	Data
48	25.135	6.590	57.056	44.491	43.997	Data
48	25.362	6.581	57.057	44.492	43.997	Data
49	25.135	6.590	57.056	44.491	43.997	Data
49	25.362	6.581	57.057	44.492	43.997	Data
50	25.135	6.590	57.056	44.491	43.997	Data
50	25.362	6.581	57.057	44.492	43.997	Data
51	25.362	6.581	57.057	44.492	43.997	Data
51	25.135	6.590	57.056	44.491	43.997	Data
52.5	24.962	6.658	56.979	44.499	44.017	Data
52.5	25.112	6.645	56.982	44.499	44.017	Data
54	25.074	6.566	57.011	44.497	44.063	Data
54	25.124	6.582	57.015	44.498	44.063	Data
55	25.074	6.566	57.011	44.497	44.063	Data
55	25.124	6.582	57.015	44.498	44.063	Data
56	25.074	6.566	57.011	44.497	44.063	Data
56	25.124	6.582	57.015	44.498	44.063	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	25.074	6.566	57.011	44.497	44.063	Data
57	25.124	6.582	57.015	44.498	44.063	Data
58.5	24.962	6.658	56.979	44.499	44.017	Data
58.5	25.112	6.645	56.982	44.499	44.017	Data
60.5	25.154	6.616	57.039	44.5	43.994	Data
60.5	25.207	6.633	57.046	44.499	43.994	Data
61.75	25.154	6.616	57.039	44.5	43.994	Data
61.75	25.207	6.633	57.046	44.499	43.994	Data
63	25.154	6.616	57.039	44.5	43.994	Data
63	25.207	6.633	57.046	44.499	43.994	Data
64	25.154	6.616	57.039	44.5	43.994	Data
64	25.207	6.633	57.046	44.499	43.994	Data

Table 327: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=44.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.156	6.656	56.988	45.495	44.010	Data
8	25.058	6.654	56.989	45.496	44.011	Data
30	25.156	6.656	56.988	45.495	44.010	Data
30	25.058	6.654	56.989	45.496	44.011	Data
30	25.415	6.577	57.049	45.491	43.997	Data
30	25.180	6.594	57.060	45.49	44.005	Data
30	24.915	6.562	57.013	45.496	44.063	Data
30	24.440	6.626	57.039	45.496	43.993	Data
30	25.201	6.603	57.057	45.49	44.005	Data
30	25.271	6.589	57.055	45.491	43.997	Data
30	25.167	6.619	57.043	45.494	43.994	Data
30	25.004	6.573	57.017	45.497	44.063	Data
42	25.201	6.603	57.057	45.49	44.005	Data
42	25.180	6.594	57.060	45.49	44.005	Data
43	25.201	6.603	57.057	45.49	44.005	Data
43	25.180	6.594	57.060	45.49	44.005	Data
44	25.201	6.603	57.057	45.49	44.005	Data
44	25.180	6.594	57.060	45.49	44.005	Data
45	25.201	6.603	57.057	45.49	44.005	Data
45	25.180	6.594	57.060	45.49	44.005	Data
46.5	25.156	6.656	56.988	45.495	44.010	Data
46.5	25.058	6.654	56.989	45.496	44.011	Data
48	25.415	6.577	57.049	45.491	43.997	Data
48	25.271	6.589	57.055	45.491	43.997	Data
49	25.415	6.577	57.049	45.491	43.997	Data
49	25.271	6.589	57.055	45.491	43.997	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	25.415	6.577	57.049	45.491	43.997	Data
50	25.271	6.589	57.055	45.491	43.997	Data
51	25.415	6.577	57.049	45.491	43.997	Data
51	25.271	6.589	57.055	45.491	43.997	Data
52.5	25.156	6.656	56.988	45.495	44.010	Data
52.5	25.058	6.654	56.989	45.496	44.011	Data
54	25.004	6.573	57.017	45.497	44.063	Data
54	24.915	6.562	57.013	45.496	44.063	Data
55	25.004	6.573	57.017	45.497	44.063	Data
55	24.915	6.562	57.013	45.496	44.063	Data
56	25.004	6.573	57.017	45.497	44.063	Data
56	24.915	6.562	57.013	45.496	44.063	Data
57	25.004	6.573	57.017	45.497	44.063	Data
57	24.915	6.562	57.013	45.496	44.063	Data
58.5	25.156	6.656	56.988	45.495	44.010	Data
58.5	25.058	6.654	56.989	45.496	44.011	Data
60.5	25.167	6.619	57.043	45.494	43.994	Data
60.5	24.440	6.626	57.039	45.496	43.993	Data
61.75	25.167	6.619	57.043	45.494	43.994	Data
61.75	24.440	6.626	57.039	45.496	43.993	Data
63	25.167	6.619	57.043	45.494	43.994	Data
63	24.440	6.626	57.039	45.496	43.993	Data
64	25.167	6.619	57.043	45.494	43.994	Data
64	24.440	6.626	57.039	45.496	43.993	Data

Table 328: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=45.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.335	6.605	56.991	46.497	43.998	Data
8	24.528	6.642	57.003	46.509	44.006	Data
8	25.383	6.650	57.008	46.496	44.003	Data
8	25.495	6.669	57.004	46.494	44.004	Data
8	25.174	6.600	56.990	46.497	43.998	Data
8	24.655	6.634	57.003	46.508	44.006	Data
30	24.998	6.579	57.021	46.491	44.001	Data
30	25.383	6.650	57.008	46.496	44.003	Data
30	25.174	6.600	56.990	46.497	43.998	Data
30	24.684	6.593	57.017	46.489	44.002	Data
30	25.495	6.669	57.004	46.494	44.004	Data
30	24.903	6.625	57.022	46.492	44.003	Data
30	24.655	6.634	57.003	46.508	44.006	Data
30	25.335	6.605	56.991	46.497	43.998	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	24.983	6.587	57.015	46.49	44.063	Data
30	25.282	6.610	57.024	46.496	44.006	Data
30	25.179	6.622	57.020	46.496	44.006	Data
30	25.576	6.603	57.057	46.5	44.005	Data
30	25.190	6.586	57.051	46.49	43.997	Data
30	25.154	6.613	57.062	46.501	44.005	Data
30	24.888	6.621	57.044	46.5	43.994	Data
30	24.528	6.642	57.003	46.509	44.006	Data
30	24.733	6.600	57.021	46.493	44.003	Data
30	25.013	6.611	57.023	46.492	43.996	Data
30	24.819	6.565	57.020	46.491	44.062	Data
30	25.114	6.578	57.051	46.491	43.998	Data
30	25.021	6.600	57.022	46.494	43.996	Data
30	24.967	6.622	57.042	46.498	43.994	Data
42	25.154	6.613	57.062	46.501	44.005	Data
42	25.576	6.603	57.057	46.5	44.005	Data
42	25.013	6.611	57.023	46.492	43.996	Data
42	25.021	6.600	57.022	46.494	43.996	Data
43	25.154	6.613	57.062	46.501	44.005	Data
43	25.576	6.603	57.057	46.5	44.005	Data
43	25.013	6.611	57.023	46.492	43.996	Data
43	25.021	6.600	57.022	46.494	43.996	Data
44	25.154	6.613	57.062	46.501	44.005	Data
44	25.576	6.603	57.057	46.5	44.005	Data
44	25.013	6.611	57.023	46.492	43.996	Data
44	25.021	6.600	57.022	46.494	43.996	Data
45	25.154	6.613	57.062	46.501	44.005	Data
45	25.576	6.603	57.057	46.5	44.005	Data
45	25.013	6.611	57.023	46.492	43.996	Data
45	25.021	6.600	57.022	46.494	43.996	Data
46.5	24.528	6.642	57.003	46.509	44.006	Data
46.5	25.495	6.669	57.004	46.494	44.004	Data
46.5	25.335	6.605	56.991	46.497	43.998	Data
46.5	24.655	6.634	57.003	46.508	44.006	Data
46.5	25.174	6.600	56.990	46.497	43.998	Data
46.5	25.383	6.650	57.008	46.496	44.003	Data
48	24.998	6.579	57.021	46.491	44.001	Data
48	25.114	6.578	57.051	46.491	43.998	Data
48	24.684	6.593	57.017	46.489	44.002	Data
48	25.190	6.586	57.051	46.49	43.997	Data
49	24.998	6.579	57.021	46.491	44.001	Data
49	25.114	6.578	57.051	46.491	43.998	Data
49	24.684	6.593	57.017	46.489	44.002	Data
49	25.190	6.586	57.051	46.49	43.997	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	24.998	6.579	57.021	46.491	44.001	Data
50	25.114	6.578	57.051	46.491	43.998	Data
50	24.684	6.593	57.017	46.489	44.002	Data
50	25.190	6.586	57.051	46.49	43.997	Data
51	24.998	6.579	57.021	46.491	44.001	Data
51	25.114	6.578	57.051	46.491	43.998	Data
51	24.684	6.593	57.017	46.489	44.002	Data
51	25.190	6.586	57.051	46.49	43.997	Data
52.5	24.528	6.642	57.003	46.509	44.006	Data
52.5	25.335	6.605	56.991	46.497	43.998	Data
52.5	25.495	6.669	57.004	46.494	44.004	Data
52.5	25.174	6.600	56.990	46.497	43.998	Data
52.5	24.655	6.634	57.003	46.508	44.006	Data
52.5	25.383	6.650	57.008	46.496	44.003	Data
54	24.983	6.587	57.015	46.49	44.063	Data
54	24.903	6.625	57.022	46.492	44.003	Data
54	24.819	6.565	57.020	46.491	44.062	Data
54	24.733	6.600	57.021	46.493	44.003	Data
55	24.983	6.587	57.015	46.49	44.063	Data
55	24.903	6.625	57.022	46.492	44.003	Data
55	24.819	6.565	57.020	46.491	44.062	Data
55	24.733	6.600	57.021	46.493	44.003	Data
56	24.983	6.587	57.015	46.49	44.063	Data
56	24.903	6.625	57.022	46.492	44.003	Data
56	24.733	6.600	57.021	46.493	44.003	Data
56	24.819	6.565	57.020	46.491	44.062	Data
57	24.983	6.587	57.015	46.49	44.063	Data
57	24.903	6.625	57.022	46.492	44.003	Data
57	24.733	6.600	57.021	46.493	44.003	Data
57	24.819	6.565	57.020	46.491	44.062	Data
58.5	25.335	6.605	56.991	46.497	43.998	Data
58.5	24.528	6.642	57.003	46.509	44.006	Data
58.5	25.174	6.600	56.990	46.497	43.998	Data
58.5	25.495	6.669	57.004	46.494	44.004	Data
58.5	24.655	6.634	57.003	46.508	44.006	Data
58.5	25.383	6.650	57.008	46.496	44.003	Data
60.5	24.888	6.621	57.044	46.5	43.994	Data
60.5	24.967	6.622	57.042	46.498	43.994	Data
60.5	25.282	6.610	57.024	46.496	44.006	Data
60.5	25.179	6.622	57.020	46.496	44.006	Data
61.75	24.888	6.621	57.044	46.5	43.994	Data
61.75	24.967	6.622	57.042	46.498	43.994	Data
61.75	25.282	6.610	57.024	46.496	44.006	Data
61.75	25.179	6.622	57.020	46.496	44.006	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	24.888	6.621	57.044	46.5	43.994	Data
63	25.282	6.610	57.024	46.496	44.006	Data
63	24.967	6.622	57.042	46.498	43.994	Data
63	25.179	6.622	57.020	46.496	44.006	Data
64	24.888	6.621	57.044	46.5	43.994	Data
64	25.282	6.610	57.024	46.496	44.006	Data
64	24.967	6.622	57.042	46.498	43.994	Data
64	25.179	6.622	57.020	46.496	44.006	Data

Table 329: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=46.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.166	6.576	57.054	47.493	43.997	Data
30	25.427	6.582	57.047	47.493	43.997	Data
30	25.113	6.588	57.019	47.499	44.063	Data
30	24.978	6.607	57.056	47.501	44.005	Data
30	24.907	6.606	57.069	47.5	44.005	Data
30	24.943	6.610	57.042	47.507	43.995	Data
30	24.991	6.635	57.039	47.506	43.995	Data
30	24.718	6.559	57.017	47.499	44.062	Data
42	24.907	6.606	57.069	47.5	44.005	Data
42	24.978	6.607	57.056	47.501	44.005	Data
43	24.907	6.606	57.069	47.5	44.005	Data
43	24.978	6.607	57.056	47.501	44.005	Data
44	24.907	6.606	57.069	47.5	44.005	Data
44	24.978	6.607	57.056	47.501	44.005	Data
45	24.907	6.606	57.069	47.5	44.005	Data
45	24.978	6.607	57.056	47.501	44.005	Data
48	25.427	6.582	57.047	47.493	43.997	Data
48	25.166	6.576	57.054	47.493	43.997	Data
49	25.427	6.582	57.047	47.493	43.997	Data
49	25.166	6.576	57.054	47.493	43.997	Data
50	25.427	6.582	57.047	47.493	43.997	Data
50	25.166	6.576	57.054	47.493	43.997	Data
51	25.166	6.576	57.054	47.493	43.997	Data
51	25.427	6.582	57.047	47.493	43.997	Data
54	25.113	6.588	57.019	47.499	44.063	Data
54	24.718	6.559	57.017	47.499	44.062	Data
55	25.113	6.588	57.019	47.499	44.063	Data
55	24.718	6.559	57.017	47.499	44.062	Data
56	25.113	6.588	57.019	47.499	44.063	Data
56	24.718	6.559	57.017	47.499	44.062	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	25.113	6.588	57.019	47.499	44.063	Data
57	24.718	6.559	57.017	47.499	44.062	Data
60.5	24.943	6.610	57.042	47.507	43.995	Data
60.5	24.991	6.635	57.039	47.506	43.995	Data
61.75	24.943	6.610	57.042	47.507	43.995	Data
61.75	24.991	6.635	57.039	47.506	43.995	Data
63	24.943	6.610	57.042	47.507	43.995	Data
63	24.991	6.635	57.039	47.506	43.995	Data
64	24.943	6.610	57.042	47.507	43.995	Data
64	24.991	6.635	57.039	47.506	43.995	Data

Table 330: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=47.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	24.966	6.598	57.012	48.505	44.062	Data
30	25.361	6.597	57.056	48.502	43.997	Data
30	25.312	6.576	57.051	48.501	43.998	Data
30	25.119	6.618	57.064	48.508	44.004	Data
30	24.990	6.569	57.013	48.506	44.062	Data
30	24.853	6.589	57.061	48.507	44.005	Data
30	25.054	6.597	57.042	48.507	43.995	Data
30	25.023	6.614	57.038	48.506	43.996	Data
42	24.853	6.589	57.061	48.507	44.005	Data
42	25.119	6.618	57.064	48.508	44.004	Data
43	24.853	6.589	57.061	48.507	44.005	Data
43	25.119	6.618	57.064	48.508	44.004	Data
44	24.853	6.589	57.061	48.507	44.005	Data
44	25.119	6.618	57.064	48.508	44.004	Data
45	24.853	6.589	57.061	48.507	44.005	Data
45	25.119	6.618	57.064	48.508	44.004	Data
48	25.361	6.597	57.056	48.502	43.997	Data
48	25.312	6.576	57.051	48.501	43.998	Data
49	25.361	6.597	57.056	48.502	43.997	Data
49	25.312	6.576	57.051	48.501	43.998	Data
50	25.361	6.597	57.056	48.502	43.997	Data
50	25.312	6.576	57.051	48.501	43.998	Data
51	25.361	6.597	57.056	48.502	43.997	Data
51	25.312	6.576	57.051	48.501	43.998	Data
54	24.966	6.598	57.012	48.505	44.062	Data
54	24.990	6.569	57.013	48.506	44.062	Data
55	24.966	6.598	57.012	48.505	44.062	Data
55	24.990	6.569	57.013	48.506	44.062	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	24.966	6.598	57.012	48.505	44.062	Data
56	24.990	6.569	57.013	48.506	44.062	Data
57	24.966	6.598	57.012	48.505	44.062	Data
57	24.990	6.569	57.013	48.506	44.062	Data
60.5	25.023	6.614	57.038	48.506	43.996	Data
60.5	25.054	6.597	57.042	48.507	43.995	Data
61.75	25.023	6.614	57.038	48.506	43.996	Data
61.75	25.054	6.597	57.042	48.507	43.995	Data
63	25.023	6.614	57.038	48.506	43.996	Data
63	25.054	6.597	57.042	48.507	43.995	Data
64	25.023	6.614	57.038	48.506	43.996	Data
64	25.054	6.597	57.042	48.507	43.995	Data

Table 331: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=48.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.285	6.580	57.052	49.506	43.997	Data
30	25.069	6.613	57.061	49.509	44.004	Data
30	25.018	6.601	57.067	49.51	44.004	Data
30	25.203	6.593	57.047	49.507	43.997	Data
30	25.102	6.565	57.018	49.507	44.063	Data
30	24.987	6.585	57.017	49.506	44.063	Data
30	25.075	6.621	57.041	49.508	43.996	Data
30	24.882	6.619	57.040	49.508	43.995	Data
42	25.069	6.613	57.061	49.509	44.004	Data
42	25.018	6.601	57.067	49.51	44.004	Data
43	25.069	6.613	57.061	49.509	44.004	Data
43	25.018	6.601	57.067	49.51	44.004	Data
44	25.069	6.613	57.061	49.509	44.004	Data
44	25.018	6.601	57.067	49.51	44.004	Data
45	25.069	6.613	57.061	49.509	44.004	Data
45	25.018	6.601	57.067	49.51	44.004	Data
48	25.285	6.580	57.052	49.506	43.997	Data
48	25.203	6.593	57.047	49.507	43.997	Data
49	25.285	6.580	57.052	49.506	43.997	Data
49	25.203	6.593	57.047	49.507	43.997	Data
50	25.285	6.580	57.052	49.506	43.997	Data
50	25.203	6.593	57.047	49.507	43.997	Data
51	25.285	6.580	57.052	49.506	43.997	Data
51	25.203	6.593	57.047	49.507	43.997	Data
54	25.102	6.565	57.018	49.507	44.063	Data
54	24.987	6.585	57.017	49.506	44.063	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	25.102	6.565	57.018	49.507	44.063	Data
55	24.987	6.585	57.017	49.506	44.063	Data
56	25.102	6.565	57.018	49.507	44.063	Data
56	24.987	6.585	57.017	49.506	44.063	Data
57	25.102	6.565	57.018	49.507	44.063	Data
57	24.987	6.585	57.017	49.506	44.063	Data
60.5	25.075	6.621	57.041	49.508	43.996	Data
60.5	24.882	6.619	57.040	49.508	43.995	Data
61.75	25.075	6.621	57.041	49.508	43.996	Data
61.75	24.882	6.619	57.040	49.508	43.995	Data
63	25.075	6.621	57.041	49.508	43.996	Data
63	24.882	6.619	57.040	49.508	43.995	Data
64	25.075	6.621	57.041	49.508	43.996	Data
64	24.882	6.619	57.040	49.508	43.995	Data

Table 332: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=49.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.285	6.577	57.055	50.499	43.998	Data
30	25.231	6.584	57.049	50.501	43.997	Data
30	24.916	6.569	57.014	50.5	44.062	Data
30	24.936	6.582	57.025	50.498	44.062	Data
30	25.072	6.593	57.062	50.516	44.003	Data
30	25.057	6.621	57.037	50.526	43.997	Data
30	24.924	6.610	57.034	50.527	43.997	Data
30	24.885	6.619	57.063	50.513	44.003	Data
42	25.072	6.593	57.062	50.516	44.003	Data
42	24.885	6.619	57.063	50.513	44.003	Data
43	25.072	6.593	57.062	50.516	44.003	Data
43	24.885	6.619	57.063	50.513	44.003	Data
44	25.072	6.593	57.062	50.516	44.003	Data
44	24.885	6.619	57.063	50.513	44.003	Data
45	25.072	6.593	57.062	50.516	44.003	Data
45	24.885	6.619	57.063	50.513	44.003	Data
48	25.231	6.584	57.049	50.501	43.997	Data
48	25.285	6.577	57.055	50.499	43.998	Data
49	25.231	6.584	57.049	50.501	43.997	Data
49	25.285	6.577	57.055	50.499	43.998	Data
50	25.285	6.577	57.055	50.499	43.998	Data
50	25.231	6.584	57.049	50.501	43.997	Data
51	25.231	6.584	57.049	50.501	43.997	Data
51	25.285	6.577	57.055	50.499	43.998	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	24.916	6.569	57.014	50.5	44.062	Data
54	24.936	6.582	57.025	50.498	44.062	Data
55	24.916	6.569	57.014	50.5	44.062	Data
55	24.936	6.582	57.025	50.498	44.062	Data
56	24.916	6.569	57.014	50.5	44.062	Data
56	24.936	6.582	57.025	50.498	44.062	Data
57	24.916	6.569	57.014	50.5	44.062	Data
57	24.936	6.582	57.025	50.498	44.062	Data
60.5	24.924	6.610	57.034	50.527	43.997	Data
60.5	25.057	6.621	57.037	50.526	43.997	Data
61.75	24.924	6.610	57.034	50.527	43.997	Data
61.75	25.057	6.621	57.037	50.526	43.997	Data
63	24.924	6.610	57.034	50.527	43.997	Data
63	25.057	6.621	57.037	50.526	43.997	Data
64	24.924	6.610	57.034	50.527	43.997	Data
64	25.057	6.621	57.037	50.526	43.997	Data

Table 333: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=50.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.045	6.607	57.061	51.509	44.003	Data
30	25.056	6.571	57.008	51.505	44.062	Data
30	25.051	6.619	57.064	51.509	44.003	Data
30	25.090	6.581	57.013	51.503	44.062	Data
30	25.109	6.622	57.042	51.496	43.997	Data
30	25.340	6.580	57.053	51.502	43.998	Data
30	25.053	6.590	57.046	51.502	43.998	Data
30	24.914	6.625	57.038	51.496	43.997	Data
42	25.051	6.619	57.064	51.509	44.003	Data
42	25.045	6.607	57.061	51.509	44.003	Data
43	25.051	6.619	57.064	51.509	44.003	Data
43	25.045	6.607	57.061	51.509	44.003	Data
44	25.045	6.607	57.061	51.509	44.003	Data
44	25.051	6.619	57.064	51.509	44.003	Data
45	25.045	6.607	57.061	51.509	44.003	Data
45	25.051	6.619	57.064	51.509	44.003	Data
48	25.340	6.580	57.053	51.502	43.998	Data
48	25.053	6.590	57.046	51.502	43.998	Data
49	25.340	6.580	57.053	51.502	43.998	Data
49	25.053	6.590	57.046	51.502	43.998	Data
50	25.340	6.580	57.053	51.502	43.998	Data
50	25.053	6.590	57.046	51.502	43.998	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	25.340	6.580	57.053	51.502	43.998	Data
51	25.053	6.590	57.046	51.502	43.998	Data
54	25.056	6.571	57.008	51.505	44.062	Data
54	25.090	6.581	57.013	51.503	44.062	Data
55	25.056	6.571	57.008	51.505	44.062	Data
55	25.090	6.581	57.013	51.503	44.062	Data
56	25.056	6.571	57.008	51.505	44.062	Data
56	25.090	6.581	57.013	51.503	44.062	Data
57	25.056	6.571	57.008	51.505	44.062	Data
57	25.090	6.581	57.013	51.503	44.062	Data
60.5	25.109	6.622	57.042	51.496	43.997	Data
60.5	24.914	6.625	57.038	51.496	43.997	Data
61.75	25.109	6.622	57.042	51.496	43.997	Data
61.75	24.914	6.625	57.038	51.496	43.997	Data
63	25.109	6.622	57.042	51.496	43.997	Data
63	24.914	6.625	57.038	51.496	43.997	Data
64	25.109	6.622	57.042	51.496	43.997	Data
64	24.914	6.625	57.038	51.496	43.997	Data

Table 334: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=51.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.143	6.626	57.009	52.496	44.005	Data
8	25.322	6.610	56.990	52.5	43.989	Data
8	25.009	6.629	57.009	52.496	44.005	Data
8	25.319	6.612	56.991	52.5	43.989	Data
30	25.322	6.610	56.990	52.5	43.989	Data
30	25.420	6.615	57.022	52.504	43.986	Data
30	25.152	6.594	57.047	52.496	43.998	Data
30	25.009	6.629	57.009	52.496	44.005	Data
30	24.792	6.612	57.022	52.498	44.019	Data
30	25.143	6.626	57.009	52.496	44.005	Data
30	25.341	6.587	57.047	52.496	43.998	Data
30	25.543	6.605	57.028	52.504	43.986	Data
30	25.199	6.616	57.021	52.498	44.019	Data
30	25.275	6.587	57.016	52.502	44.062	Data
30	25.319	6.612	56.991	52.5	43.989	Data
30	25.094	6.616	57.060	52.509	44.004	Data
30	24.998	6.606	57.022	52.509	43.994	Data
30	25.164	6.580	57.007	52.501	44.061	Data
30	24.769	6.587	57.070	52.501	44.002	Data
30	24.874	6.587	57.060	52.499	44.002	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	24.952	6.606	57.031	52.511	43.994	Data
30	25.144	6.600	57.049	52.503	43.997	Data
30	25.204	6.619	57.038	52.504	43.997	Data
30	25.060	6.603	57.068	52.509	44.003	Data
42	25.094	6.616	57.060	52.509	44.004	Data
42	25.060	6.603	57.068	52.509	44.003	Data
42	24.952	6.606	57.031	52.511	43.994	Data
42	24.998	6.606	57.022	52.509	43.994	Data
43	25.060	6.603	57.068	52.509	44.003	Data
43	25.094	6.616	57.060	52.509	44.004	Data
43	24.952	6.606	57.031	52.511	43.994	Data
43	24.998	6.606	57.022	52.509	43.994	Data
44	25.060	6.603	57.068	52.509	44.003	Data
44	25.094	6.616	57.060	52.509	44.004	Data
44	24.952	6.606	57.031	52.511	43.994	Data
44	24.998	6.606	57.022	52.509	43.994	Data
45	25.060	6.603	57.068	52.509	44.003	Data
45	25.094	6.616	57.060	52.509	44.004	Data
45	24.952	6.606	57.031	52.511	43.994	Data
45	24.998	6.606	57.022	52.509	43.994	Data
46.5	25.009	6.629	57.009	52.496	44.005	Data
46.5	25.322	6.610	56.990	52.5	43.989	Data
46.5	25.143	6.626	57.009	52.496	44.005	Data
46.5	25.319	6.612	56.991	52.5	43.989	Data
48	24.874	6.587	57.060	52.499	44.002	Data
48	24.769	6.587	57.070	52.501	44.002	Data
48	25.152	6.594	57.047	52.496	43.998	Data
48	25.341	6.587	57.047	52.496	43.998	Data
49	24.874	6.587	57.060	52.499	44.002	Data
49	24.769	6.587	57.070	52.501	44.002	Data
49	25.152	6.594	57.047	52.496	43.998	Data
49	25.341	6.587	57.047	52.496	43.998	Data
50	24.874	6.587	57.060	52.499	44.002	Data
50	24.769	6.587	57.070	52.501	44.002	Data
50	25.152	6.594	57.047	52.496	43.998	Data
50	25.341	6.587	57.047	52.496	43.998	Data
51	24.874	6.587	57.060	52.499	44.002	Data
51	24.769	6.587	57.070	52.501	44.002	Data
51	25.152	6.594	57.047	52.496	43.998	Data
51	25.341	6.587	57.047	52.496	43.998	Data
52.5	25.322	6.610	56.990	52.5	43.989	Data
52.5	25.009	6.629	57.009	52.496	44.005	Data
52.5	25.143	6.626	57.009	52.496	44.005	Data
52.5	25.319	6.612	56.991	52.5	43.989	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	25.164	6.580	57.007	52.501	44.061	Data
54	25.275	6.587	57.016	52.502	44.062	Data
54	25.199	6.616	57.021	52.498	44.019	Data
54	24.792	6.612	57.022	52.498	44.019	Data
55	25.164	6.580	57.007	52.501	44.061	Data
55	25.275	6.587	57.016	52.502	44.062	Data
55	25.199	6.616	57.021	52.498	44.019	Data
55	24.792	6.612	57.022	52.498	44.019	Data
56	25.164	6.580	57.007	52.501	44.061	Data
56	25.275	6.587	57.016	52.502	44.062	Data
56	25.199	6.616	57.021	52.498	44.019	Data
56	24.792	6.612	57.022	52.498	44.019	Data
57	25.164	6.580	57.007	52.501	44.061	Data
57	25.275	6.587	57.016	52.502	44.062	Data
57	25.199	6.616	57.021	52.498	44.019	Data
57	24.792	6.612	57.022	52.498	44.019	Data
58.5	25.322	6.610	56.990	52.5	43.989	Data
58.5	25.009	6.629	57.009	52.496	44.005	Data
58.5	25.143	6.626	57.009	52.496	44.005	Data
58.5	25.319	6.612	56.991	52.5	43.989	Data
60.5	25.204	6.619	57.038	52.504	43.997	Data
60.5	25.420	6.615	57.022	52.504	43.986	Data
60.5	25.144	6.600	57.049	52.503	43.997	Data
60.5	25.543	6.605	57.028	52.504	43.986	Data
61.75	25.204	6.619	57.038	52.504	43.997	Data
61.75	25.420	6.615	57.022	52.504	43.986	Data
61.75	25.144	6.600	57.049	52.503	43.997	Data
61.75	25.543	6.605	57.028	52.504	43.986	Data
63	25.204	6.619	57.038	52.504	43.997	Data
63	25.420	6.615	57.022	52.504	43.986	Data
63	25.144	6.600	57.049	52.503	43.997	Data
63	25.543	6.605	57.028	52.504	43.986	Data
64	25.204	6.619	57.038	52.504	43.997	Data
64	25.420	6.615	57.022	52.504	43.986	Data
64	25.144	6.600	57.049	52.503	43.997	Data
64	25.543	6.605	57.028	52.504	43.986	Data

Table 335: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=52.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.011	6.605	57.060	53.506	44.003	Data
30	24.968	6.610	57.060	53.508	44.004	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.206	6.555	57.044	53.493	43.997	Data
30	25.440	6.592	57.046	53.493	43.997	Data
30	25.146	6.586	57.001	53.502	44.061	Data
30	25.278	6.623	57.042	53.495	43.998	Data
30	25.370	6.558	57.007	53.501	44.061	Data
30	25.332	6.615	57.043	53.494	43.998	Data
42	25.011	6.605	57.060	53.506	44.003	Data
42	24.968	6.610	57.060	53.508	44.004	Data
43	25.011	6.605	57.060	53.506	44.003	Data
43	24.968	6.610	57.060	53.508	44.004	Data
44	25.011	6.605	57.060	53.506	44.003	Data
44	24.968	6.610	57.060	53.508	44.004	Data
45	25.011	6.605	57.060	53.506	44.003	Data
45	24.968	6.610	57.060	53.508	44.004	Data
48	25.440	6.592	57.046	53.493	43.997	Data
48	25.206	6.555	57.044	53.493	43.997	Data
49	25.440	6.592	57.046	53.493	43.997	Data
49	25.206	6.555	57.044	53.493	43.997	Data
50	25.440	6.592	57.046	53.493	43.997	Data
50	25.206	6.555	57.044	53.493	43.997	Data
51	25.440	6.592	57.046	53.493	43.997	Data
51	25.206	6.555	57.044	53.493	43.997	Data
54	25.146	6.586	57.001	53.502	44.061	Data
54	25.370	6.558	57.007	53.501	44.061	Data
55	25.146	6.586	57.001	53.502	44.061	Data
55	25.370	6.558	57.007	53.501	44.061	Data
56	25.146	6.586	57.001	53.502	44.061	Data
56	25.370	6.558	57.007	53.501	44.061	Data
57	25.370	6.558	57.007	53.501	44.061	Data
57	25.146	6.586	57.001	53.502	44.061	Data
60.5	25.278	6.623	57.042	53.495	43.998	Data
60.5	25.332	6.615	57.043	53.494	43.998	Data
61.75	25.278	6.623	57.042	53.495	43.998	Data
61.75	25.332	6.615	57.043	53.494	43.998	Data
63	25.278	6.623	57.042	53.495	43.998	Data
63	25.332	6.615	57.043	53.494	43.998	Data
64	25.278	6.623	57.042	53.495	43.998	Data
64	25.332	6.615	57.043	53.494	43.998	Data

Table 336: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=53.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.251	6.590	57.063	54.491	43.996	Data
30	25.239	6.626	57.046	54.493	43.998	Data
30	24.986	6.593	57.067	54.498	44.002	Data
30	25.294	6.579	56.999	54.494	44.061	Data
30	25.445	6.581	57.054	54.492	43.997	Data
30	25.617	6.582	57.002	54.495	44.061	Data
30	25.179	6.609	57.043	54.492	43.998	Data
30	25.054	6.618	57.066	54.498	44.003	Data
42	24.986	6.593	57.067	54.498	44.002	Data
42	25.054	6.618	57.066	54.498	44.003	Data
43	25.054	6.618	57.066	54.498	44.003	Data
43	24.986	6.593	57.067	54.498	44.002	Data
44	25.054	6.618	57.066	54.498	44.003	Data
44	24.986	6.593	57.067	54.498	44.002	Data
45	24.986	6.593	57.067	54.498	44.002	Data
45	25.054	6.618	57.066	54.498	44.003	Data
48	25.445	6.581	57.054	54.492	43.997	Data
48	25.251	6.590	57.063	54.491	43.996	Data
49	25.445	6.581	57.054	54.492	43.997	Data
49	25.251	6.590	57.063	54.491	43.996	Data
50	25.445	6.581	57.054	54.492	43.997	Data
50	25.251	6.590	57.063	54.491	43.996	Data
51	25.445	6.581	57.054	54.492	43.997	Data
51	25.251	6.590	57.063	54.491	43.996	Data
54	25.617	6.582	57.002	54.495	44.061	Data
54	25.294	6.579	56.999	54.494	44.061	Data
55	25.617	6.582	57.002	54.495	44.061	Data
55	25.294	6.579	56.999	54.494	44.061	Data
56	25.294	6.579	56.999	54.494	44.061	Data
56	25.617	6.582	57.002	54.495	44.061	Data
57	25.294	6.579	56.999	54.494	44.061	Data
57	25.617	6.582	57.002	54.495	44.061	Data
60.5	25.239	6.626	57.046	54.493	43.998	Data
60.5	25.179	6.609	57.043	54.492	43.998	Data
61.75	25.239	6.626	57.046	54.493	43.998	Data
61.75	25.179	6.609	57.043	54.492	43.998	Data
63	25.239	6.626	57.046	54.493	43.998	Data
63	25.179	6.609	57.043	54.492	43.998	Data
64	25.239	6.626	57.046	54.493	43.998	Data
64	25.179	6.609	57.043	54.492	43.998	Data

Table 337: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=54.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.236	6.620	56.966	55.5	44.145	Data
8	25.114	6.612	56.968	55.5	44.145	Data
30	25.424	6.587	57.048	55.494	43.996	Data
30	25.166	6.607	57.058	55.504	44.003	Data
30	25.236	6.620	56.966	55.5	44.145	Data
30	25.114	6.612	56.968	55.5	44.145	Data
30	25.151	6.624	57.042	55.498	43.998	Data
30	25.664	6.579	57.000	55.491	44.060	Data
30	25.383	6.577	57.046	55.495	43.996	Data
30	25.206	6.607	57.042	55.497	43.999	Data
30	25.283	6.626	57.063	55.504	44.002	Data
30	25.382	6.583	56.994	55.493	44.060	Data
42	25.283	6.626	57.063	55.504	44.002	Data
42	25.166	6.607	57.058	55.504	44.003	Data
43	25.283	6.626	57.063	55.504	44.002	Data
43	25.166	6.607	57.058	55.504	44.003	Data
44	25.283	6.626	57.063	55.504	44.002	Data
44	25.166	6.607	57.058	55.504	44.003	Data
45	25.283	6.626	57.063	55.504	44.002	Data
45	25.166	6.607	57.058	55.504	44.003	Data
46.5	25.114	6.612	56.968	55.5	44.145	Data
46.5	25.236	6.620	56.966	55.5	44.145	Data
48	25.383	6.577	57.046	55.495	43.996	Data
48	25.424	6.587	57.048	55.494	43.996	Data
49	25.383	6.577	57.046	55.495	43.996	Data
49	25.424	6.587	57.048	55.494	43.996	Data
50	25.383	6.577	57.046	55.495	43.996	Data
50	25.424	6.587	57.048	55.494	43.996	Data
51	25.383	6.577	57.046	55.495	43.996	Data
51	25.424	6.587	57.048	55.494	43.996	Data
52.5	25.114	6.612	56.968	55.5	44.145	Data
52.5	25.236	6.620	56.966	55.5	44.145	Data
54	25.382	6.583	56.994	55.493	44.060	Data
54	25.664	6.579	57.000	55.491	44.060	Data
55	25.382	6.583	56.994	55.493	44.060	Data
55	25.664	6.579	57.000	55.491	44.060	Data
56	25.664	6.579	57.000	55.491	44.060	Data
56	25.382	6.583	56.994	55.493	44.060	Data
57	25.664	6.579	57.000	55.491	44.060	Data
57	25.382	6.583	56.994	55.493	44.060	Data
58.5	25.114	6.612	56.968	55.5	44.145	Data
58.5	25.236	6.620	56.966	55.5	44.145	Data
60.5	25.151	6.624	57.042	55.498	43.998	Data
60.5	25.206	6.607	57.042	55.497	43.999	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	25.151	6.624	57.042	55.498	43.998	Data
61.75	25.206	6.607	57.042	55.497	43.999	Data
63	25.151	6.624	57.042	55.498	43.998	Data
63	25.206	6.607	57.042	55.497	43.999	Data
64	25.206	6.607	57.042	55.497	43.999	Data
64	25.151	6.624	57.042	55.498	43.998	Data

Table 338: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=55.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.981	6.626	56.962	56.496	44.141	Data
8	24.967	6.623	56.970	56.496	44.142	Data
30	25.251	6.605	57.068	56.506	44.003	Data
30	24.967	6.623	56.970	56.496	44.142	Data
30	25.220	6.590	57.050	56.495	43.997	Data
30	25.470	6.595	57.054	56.496	43.996	Data
30	25.598	6.587	56.997	56.495	44.060	Data
30	25.402	6.617	57.050	56.497	43.998	Data
30	25.409	6.575	56.991	56.494	44.060	Data
30	25.052	6.593	57.061	56.506	44.001	Data
30	24.981	6.626	56.962	56.496	44.141	Data
30	25.355	6.634	57.054	56.496	43.999	Data
42	25.251	6.605	57.068	56.506	44.003	Data
42	25.052	6.593	57.061	56.506	44.001	Data
43	25.251	6.605	57.068	56.506	44.003	Data
43	25.052	6.593	57.061	56.506	44.001	Data
44	25.251	6.605	57.068	56.506	44.003	Data
44	25.052	6.593	57.061	56.506	44.001	Data
45	25.251	6.605	57.068	56.506	44.003	Data
45	25.052	6.593	57.061	56.506	44.001	Data
46.5	24.967	6.623	56.970	56.496	44.142	Data
46.5	24.981	6.626	56.962	56.496	44.141	Data
48	25.470	6.595	57.054	56.496	43.996	Data
48	25.220	6.590	57.050	56.495	43.997	Data
49	25.470	6.595	57.054	56.496	43.996	Data
49	25.220	6.590	57.050	56.495	43.997	Data
50	25.470	6.595	57.054	56.496	43.996	Data
50	25.220	6.590	57.050	56.495	43.997	Data
51	25.470	6.595	57.054	56.496	43.996	Data
51	25.220	6.590	57.050	56.495	43.997	Data
52.5	24.967	6.623	56.970	56.496	44.142	Data
52.5	24.981	6.626	56.962	56.496	44.141	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	25.409	6.575	56.991	56.494	44.060	Data
54	25.598	6.587	56.997	56.495	44.060	Data
55	25.409	6.575	56.991	56.494	44.060	Data
55	25.598	6.587	56.997	56.495	44.060	Data
56	25.409	6.575	56.991	56.494	44.060	Data
56	25.598	6.587	56.997	56.495	44.060	Data
57	25.409	6.575	56.991	56.494	44.060	Data
57	25.598	6.587	56.997	56.495	44.060	Data
58.5	24.981	6.626	56.962	56.496	44.141	Data
58.5	24.967	6.623	56.970	56.496	44.142	Data
60.5	25.402	6.617	57.050	56.497	43.998	Data
60.5	25.355	6.634	57.054	56.496	43.999	Data
61.75	25.402	6.617	57.050	56.497	43.998	Data
61.75	25.355	6.634	57.054	56.496	43.999	Data
63	25.402	6.617	57.050	56.497	43.998	Data
63	25.355	6.634	57.054	56.496	43.999	Data
64	25.402	6.617	57.050	56.497	43.998	Data
64	25.355	6.634	57.054	56.496	43.999	Data

Table 339: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=56.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.286	6.605	56.959	57.505	44.137	Data
8	25.210	6.636	56.962	57.507	44.137	Data
30	25.534	6.582	57.050	57.514	43.996	Data
30	24.976	6.603	57.055	57.517	44.002	Data
30	25.374	6.602	57.045	57.516	43.997	Data
30	25.568	6.569	56.974	57.497	44.056	Data
30	25.286	6.605	56.959	57.505	44.137	Data
30	25.086	6.605	57.068	57.516	44.003	Data
30	25.210	6.636	56.962	57.507	44.137	Data
30	25.286	6.579	56.976	57.498	44.057	Data
30	25.308	6.624	57.043	57.502	43.999	Data
30	25.333	6.615	57.046	57.502	43.999	Data
42	24.976	6.603	57.055	57.517	44.002	Data
42	25.086	6.605	57.068	57.516	44.003	Data
43	24.976	6.603	57.055	57.517	44.002	Data
43	25.086	6.605	57.068	57.516	44.003	Data
44	24.976	6.603	57.055	57.517	44.002	Data
44	25.086	6.605	57.068	57.516	44.003	Data
45	24.976	6.603	57.055	57.517	44.002	Data
45	25.086	6.605	57.068	57.516	44.003	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	25.286	6.605	56.959	57.505	44.137	Data
46.5	25.210	6.636	56.962	57.507	44.137	Data
48	25.374	6.602	57.045	57.516	43.997	Data
48	25.534	6.582	57.050	57.514	43.996	Data
49	25.374	6.602	57.045	57.516	43.997	Data
49	25.534	6.582	57.050	57.514	43.996	Data
50	25.374	6.602	57.045	57.516	43.997	Data
50	25.534	6.582	57.050	57.514	43.996	Data
51	25.374	6.602	57.045	57.516	43.997	Data
51	25.534	6.582	57.050	57.514	43.996	Data
52.5	25.286	6.605	56.959	57.505	44.137	Data
52.5	25.210	6.636	56.962	57.507	44.137	Data
54	25.568	6.569	56.974	57.497	44.056	Data
54	25.286	6.579	56.976	57.498	44.057	Data
55	25.568	6.569	56.974	57.497	44.056	Data
55	25.286	6.579	56.976	57.498	44.057	Data
56	25.568	6.569	56.974	57.497	44.056	Data
56	25.286	6.579	56.976	57.498	44.057	Data
57	25.568	6.569	56.974	57.497	44.056	Data
57	25.286	6.579	56.976	57.498	44.057	Data
58.5	25.286	6.605	56.959	57.505	44.137	Data
58.5	25.210	6.636	56.962	57.507	44.137	Data
60.5	25.308	6.624	57.043	57.502	43.999	Data
60.5	25.333	6.615	57.046	57.502	43.999	Data
61.75	25.308	6.624	57.043	57.502	43.999	Data
61.75	25.333	6.615	57.046	57.502	43.999	Data
63	25.308	6.624	57.043	57.502	43.999	Data
63	25.333	6.615	57.046	57.502	43.999	Data
64	25.308	6.624	57.043	57.502	43.999	Data
64	25.333	6.615	57.046	57.502	43.999	Data

Table 340: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=57.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.018	6.626	56.996	58.5	44.003	Data
8	25.546	6.608	56.992	58.501	43.989	Data
8	24.994	6.618	56.992	58.501	44.003	Data
8	25.345	6.631	56.951	58.503	44.134	Data
8	25.288	6.642	56.961	58.503	44.134	Data
8	25.785	6.619	56.996	58.502	43.989	Data
30	25.057	6.627	57.024	58.503	44.002	Data
30	25.046	6.608	57.062	58.52	44.002	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.288	6.642	56.961	58.503	44.134	Data
30	25.176	6.610	57.064	58.52	44.003	Data
30	25.595	6.586	56.974	58.496	44.056	Data
30	25.488	6.616	57.021	58.504	43.992	Data
30	24.994	6.618	56.992	58.501	44.003	Data
30	25.459	6.584	56.970	58.495	44.055	Data
30	24.853	6.602	57.017	58.503	44.002	Data
30	25.546	6.608	56.992	58.501	43.989	Data
30	25.381	6.598	57.024	58.502	43.991	Data
30	25.345	6.631	56.951	58.503	44.134	Data
30	25.182	6.585	57.072	58.51	44.000	Data
30	25.486	6.597	57.042	58.511	43.996	Data
30	25.271	6.591	57.047	58.512	43.996	Data
30	25.018	6.626	56.996	58.5	44.003	Data
30	25.402	6.616	57.026	58.501	43.996	Data
30	25.027	6.601	57.070	58.511	44.000	Data
30	25.495	6.635	57.051	58.502	44.000	Data
30	25.785	6.619	56.996	58.502	43.989	Data
30	25.267	6.592	57.024	58.502	43.996	Data
30	25.286	6.630	57.046	58.5	44.000	Data
42	25.046	6.608	57.062	58.52	44.002	Data
42	25.176	6.610	57.064	58.52	44.003	Data
42	25.267	6.592	57.024	58.502	43.996	Data
42	25.402	6.616	57.026	58.501	43.996	Data
43	25.176	6.610	57.064	58.52	44.003	Data
43	25.046	6.608	57.062	58.52	44.002	Data
43	25.267	6.592	57.024	58.502	43.996	Data
43	25.402	6.616	57.026	58.501	43.996	Data
44	25.176	6.610	57.064	58.52	44.003	Data
44	25.046	6.608	57.062	58.52	44.002	Data
44	25.267	6.592	57.024	58.502	43.996	Data
44	25.402	6.616	57.026	58.501	43.996	Data
45	25.176	6.610	57.064	58.52	44.003	Data
45	25.046	6.608	57.062	58.52	44.002	Data
45	25.267	6.592	57.024	58.502	43.996	Data
45	25.402	6.616	57.026	58.501	43.996	Data
46.5	24.994	6.618	56.992	58.501	44.003	Data
46.5	25.018	6.626	56.996	58.5	44.003	Data
46.5	25.546	6.608	56.992	58.501	43.989	Data
46.5	25.345	6.631	56.951	58.503	44.134	Data
46.5	25.288	6.642	56.961	58.503	44.134	Data
46.5	25.785	6.619	56.996	58.502	43.989	Data
48	25.182	6.585	57.072	58.51	44.000	Data
48	25.486	6.597	57.042	58.511	43.996	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	25.271	6.591	57.047	58.512	43.996	Data
48	25.027	6.601	57.070	58.511	44.000	Data
49	25.182	6.585	57.072	58.51	44.000	Data
49	25.486	6.597	57.042	58.511	43.996	Data
49	25.271	6.591	57.047	58.512	43.996	Data
49	25.027	6.601	57.070	58.511	44.000	Data
50	25.182	6.585	57.072	58.51	44.000	Data
50	25.486	6.597	57.042	58.511	43.996	Data
50	25.271	6.591	57.047	58.512	43.996	Data
50	25.027	6.601	57.070	58.511	44.000	Data
51	25.182	6.585	57.072	58.51	44.000	Data
51	25.486	6.597	57.042	58.511	43.996	Data
51	25.271	6.591	57.047	58.512	43.996	Data
51	25.027	6.601	57.070	58.511	44.000	Data
52.5	24.994	6.618	56.992	58.501	44.003	Data
52.5	25.018	6.626	56.996	58.5	44.003	Data
52.5	25.546	6.608	56.992	58.501	43.989	Data
52.5	25.345	6.631	56.951	58.503	44.134	Data
52.5	25.288	6.642	56.961	58.503	44.134	Data
52.5	25.785	6.619	56.996	58.502	43.989	Data
54	25.595	6.586	56.974	58.496	44.056	Data
54	24.853	6.602	57.017	58.503	44.002	Data
54	25.057	6.627	57.024	58.503	44.002	Data
54	25.459	6.584	56.970	58.495	44.055	Data
55	25.595	6.586	56.974	58.496	44.056	Data
55	24.853	6.602	57.017	58.503	44.002	Data
55	25.057	6.627	57.024	58.503	44.002	Data
55	25.459	6.584	56.970	58.495	44.055	Data
56	25.595	6.586	56.974	58.496	44.056	Data
56	24.853	6.602	57.017	58.503	44.002	Data
56	25.057	6.627	57.024	58.503	44.002	Data
56	25.459	6.584	56.970	58.495	44.055	Data
57	25.595	6.586	56.974	58.496	44.056	Data
57	25.057	6.627	57.024	58.503	44.002	Data
57	24.853	6.602	57.017	58.503	44.002	Data
57	25.459	6.584	56.970	58.495	44.055	Data
58.5	25.288	6.642	56.961	58.503	44.134	Data
58.5	24.994	6.618	56.992	58.501	44.003	Data
58.5	25.345	6.631	56.951	58.503	44.134	Data
58.5	25.018	6.626	56.996	58.5	44.003	Data
58.5	25.546	6.608	56.992	58.501	43.989	Data
58.5	25.785	6.619	56.996	58.502	43.989	Data
60.5	25.286	6.630	57.046	58.5	44.000	Data
60.5	25.495	6.635	57.051	58.502	44.000	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
60.5	25.488	6.616	57.021	58.504	43.992	Data
60.5	25.381	6.598	57.024	58.502	43.991	Data
61.75	25.286	6.630	57.046	58.5	44.000	Data
61.75	25.495	6.635	57.051	58.502	44.000	Data
61.75	25.488	6.616	57.021	58.504	43.992	Data
61.75	25.381	6.598	57.024	58.502	43.991	Data
63	25.286	6.630	57.046	58.5	44.000	Data
63	25.495	6.635	57.051	58.502	44.000	Data
63	25.381	6.598	57.024	58.502	43.991	Data
63	25.488	6.616	57.021	58.504	43.992	Data
64	25.286	6.630	57.046	58.5	44.000	Data
64	25.381	6.598	57.024	58.502	43.991	Data
64	25.495	6.635	57.051	58.502	44.000	Data
64	25.488	6.616	57.021	58.504	43.992	Data

Table 341: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=58.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.462	6.627	57.008	59.499	44.130	Data
8	25.374	6.603	57.010	59.501	44.130	Data
30	25.462	6.627	57.008	59.499	44.130	Data
30	25.411	6.578	56.972	59.501	44.055	Data
30	25.500	6.565	57.041	59.515	43.996	Data
30	25.295	6.625	57.048	59.501	43.999	Data
30	25.119	6.610	57.062	59.515	44.003	Data
30	25.485	6.588	57.045	59.513	43.996	Data
30	25.484	6.589	56.972	59.502	44.055	Data
30	25.265	6.615	57.047	59.501	43.999	Data
30	25.374	6.603	57.010	59.501	44.130	Data
30	24.903	6.606	57.061	59.515	44.002	Data
42	25.119	6.610	57.062	59.515	44.003	Data
42	24.903	6.606	57.061	59.515	44.002	Data
43	25.119	6.610	57.062	59.515	44.003	Data
43	24.903	6.606	57.061	59.515	44.002	Data
44	25.119	6.610	57.062	59.515	44.003	Data
44	24.903	6.606	57.061	59.515	44.002	Data
45	25.119	6.610	57.062	59.515	44.003	Data
45	24.903	6.606	57.061	59.515	44.002	Data
46.5	25.374	6.603	57.010	59.501	44.130	Data
46.5	25.462	6.627	57.008	59.499	44.130	Data
48	25.485	6.588	57.045	59.513	43.996	Data
48	25.500	6.565	57.041	59.515	43.996	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
49	25.485	6.588	57.045	59.513	43.996	Data
49	25.500	6.565	57.041	59.515	43.996	Data
50	25.485	6.588	57.045	59.513	43.996	Data
50	25.500	6.565	57.041	59.515	43.996	Data
51	25.485	6.588	57.045	59.513	43.996	Data
51	25.500	6.565	57.041	59.515	43.996	Data
52.5	25.374	6.603	57.010	59.501	44.130	Data
52.5	25.462	6.627	57.008	59.499	44.130	Data
54	25.411	6.578	56.972	59.501	44.055	Data
54	25.484	6.589	56.972	59.502	44.055	Data
55	25.411	6.578	56.972	59.501	44.055	Data
55	25.484	6.589	56.972	59.502	44.055	Data
56	25.411	6.578	56.972	59.501	44.055	Data
56	25.484	6.589	56.972	59.502	44.055	Data
57	25.411	6.578	56.972	59.501	44.055	Data
57	25.484	6.589	56.972	59.502	44.055	Data
58.5	25.374	6.603	57.010	59.501	44.130	Data
58.5	25.462	6.627	57.008	59.499	44.130	Data
60.5	25.265	6.615	57.047	59.501	43.999	Data
60.5	25.295	6.625	57.048	59.501	43.999	Data
61.75	25.265	6.615	57.047	59.501	43.999	Data
61.75	25.295	6.625	57.048	59.501	43.999	Data
63	25.265	6.615	57.047	59.501	43.999	Data
63	25.295	6.625	57.048	59.501	43.999	Data
64	25.295	6.625	57.048	59.501	43.999	Data
64	25.265	6.615	57.047	59.501	43.999	Data

Table 342: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=59.5 (in)

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.121	6.621	57.003	60.491	44.123	Data
8	24.936	6.631	57.001	60.492	44.123	Data
30	25.121	6.621	57.003	60.491	44.123	Data
30	25.473	6.584	57.043	60.515	43.997	Data
30	25.339	6.577	56.988	60.477	44.055	Data
30	25.034	6.603	57.061	60.515	44.003	Data
30	25.103	6.623	57.061	60.516	44.003	Data
30	24.936	6.631	57.001	60.492	44.123	Data
30	25.318	6.618	57.049	60.51	44.000	Data
30	25.389	6.574	56.998	60.476	44.054	Data
30	25.210	6.568	57.049	60.514	43.997	Data
30	25.268	6.644	57.050	60.508	44.000	Data

VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
42	25.103	6.623	57.061	60.516	44.003	Data
42	25.034	6.603	57.061	60.515	44.003	Data
43	25.103	6.623	57.061	60.516	44.003	Data
43	25.034	6.603	57.061	60.515	44.003	Data
44	25.103	6.623	57.061	60.516	44.003	Data
44	25.034	6.603	57.061	60.515	44.003	Data
45	25.103	6.623	57.061	60.516	44.003	Data
45	25.034	6.603	57.061	60.515	44.003	Data
46.5	25.121	6.621	57.003	60.491	44.123	Data
46.5	24.936	6.631	57.001	60.492	44.123	Data
48	25.210	6.568	57.049	60.514	43.997	Data
48	25.473	6.584	57.043	60.515	43.997	Data
49	25.210	6.568	57.049	60.514	43.997	Data
49	25.473	6.584	57.043	60.515	43.997	Data
50	25.210	6.568	57.049	60.514	43.997	Data
50	25.473	6.584	57.043	60.515	43.997	Data
51	25.210	6.568	57.049	60.514	43.997	Data
51	25.473	6.584	57.043	60.515	43.997	Data
52.5	25.121	6.621	57.003	60.491	44.123	Data
52.5	24.936	6.631	57.001	60.492	44.123	Data
54	25.339	6.577	56.988	60.477	44.055	Data
54	25.389	6.574	56.998	60.476	44.054	Data
55	25.339	6.577	56.988	60.477	44.055	Data
55	25.389	6.574	56.998	60.476	44.054	Data
56	25.339	6.577	56.988	60.477	44.055	Data
56	25.389	6.574	56.998	60.476	44.054	Data
57	25.339	6.577	56.988	60.477	44.055	Data
57	25.389	6.574	56.998	60.476	44.054	Data
58.5	25.121	6.621	57.003	60.491	44.123	Data
58.5	24.936	6.631	57.001	60.492	44.123	Data
60.5	25.268	6.644	57.050	60.508	44.000	Data
60.5	25.318	6.618	57.049	60.51	44.000	Data
61.75	25.268	6.644	57.050	60.508	44.000	Data
61.75	25.318	6.618	57.049	60.51	44.000	Data
63	25.268	6.644	57.050	60.508	44.000	Data
63	25.318	6.618	57.049	60.51	44.000	Data
64	25.268	6.644	57.050	60.508	44.000	Data
64	25.318	6.618	57.049	60.51	44.000	Data

Table 343: VG horizontal sweep: q=25 SQ-tip VG 44 (in) VG AoA 4 — VG at span y=60.5 (in)

D.26. Vertical VG vortex sweep at y=46.5 (in), q=70, α_{VG}=4, α_W=7, RO-tip

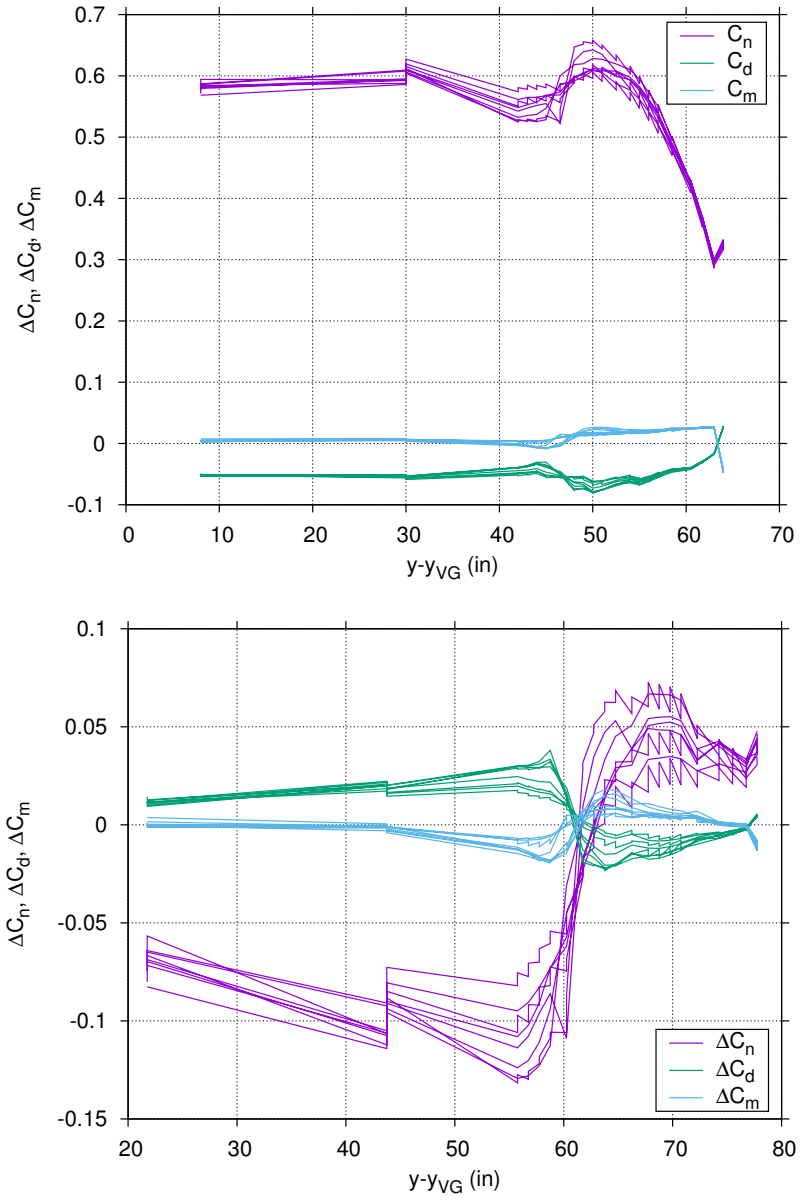

Figure 79. Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.357	6.514	57.044	46.74	42.008	Data
8	69.201	6.499	57.051	46.739	42.009	Data
8	69.922	6.487	57.026	46.747	41.986	Data
8	69.783	6.477	57.017	46.747	41.996	Data
30	68.465	6.533	57.058	46.746	42.004	Data
30	69.649	6.425	57.010	46.742	41.991	Data
30	69.357	6.514	57.044	46.74	42.008	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.864	6.536	57.013	46.748	41.990	Data
30	70.518	6.568	56.998	46.749	41.997	Data
30	70.059	6.483	56.996	46.747	41.956	Data
30	70.013	6.470	57.013	46.741	41.993	Data
30	69.073	6.474	57.039	46.757	41.999	Data
30	69.922	6.487	57.026	46.747	41.986	Data
30	69.262	6.536	57.052	46.745	42.004	Data
30	69.783	6.477	57.017	46.747	41.996	Data
30	69.168	6.506	57.046	46.759	41.996	Data
30	70.467	6.454	56.975	46.743	41.998	Data
30	69.523	6.592	57.009	46.742	42.022	Data
30	69.898	6.552	57.009	46.742	41.990	Data
30	70.119	6.517	57.000	46.747	41.956	Data
30	69.095	6.520	57.005	46.746	41.989	Data
30	70.295	6.547	56.995	46.75	41.999	Data
30	69.201	6.499	57.051	46.739	42.009	Data
30	69.805	6.516	56.984	46.743	41.989	Data
42	70.059	6.483	56.996	46.747	41.956	Data
42	70.518	6.568	56.998	46.749	41.997	Data
42	70.119	6.517	57.000	46.747	41.956	Data
42	70.295	6.547	56.995	46.75	41.999	Data
43	70.059	6.483	56.996	46.747	41.956	Data
43	70.518	6.568	56.998	46.749	41.997	Data
43	70.295	6.547	56.995	46.75	41.999	Data
43	70.119	6.517	57.000	46.747	41.956	Data
44	70.059	6.483	56.996	46.747	41.956	Data
44	70.518	6.568	56.998	46.749	41.997	Data
44	70.295	6.547	56.995	46.75	41.999	Data
44	70.119	6.517	57.000	46.747	41.956	Data
45	70.059	6.483	56.996	46.747	41.956	Data
45	70.518	6.568	56.998	46.749	41.997	Data
45	70.295	6.547	56.995	46.75	41.999	Data
45	70.119	6.517	57.000	46.747	41.956	Data
46.5	69.357	6.514	57.044	46.74	42.008	Data
46.5	69.783	6.477	57.017	46.747	41.996	Data
46.5	69.922	6.487	57.026	46.747	41.986	Data
46.5	69.201	6.499	57.051	46.739	42.009	Data
48	68.864	6.536	57.013	46.748	41.990	Data
48	68.465	6.533	57.058	46.746	42.004	Data
48	69.095	6.520	57.005	46.746	41.989	Data
48	69.262	6.536	57.052	46.745	42.004	Data
49	68.864	6.536	57.013	46.748	41.990	Data
49	68.465	6.533	57.058	46.746	42.004	Data
49	69.095	6.520	57.005	46.746	41.989	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
49	69.262	6.536	57.052	46.745	42.004	Data
50	68.864	6.536	57.013	46.748	41.990	Data
50	68.465	6.533	57.058	46.746	42.004	Data
50	69.095	6.520	57.005	46.746	41.989	Data
50	69.262	6.536	57.052	46.745	42.004	Data
51	68.864	6.536	57.013	46.748	41.990	Data
51	68.465	6.533	57.058	46.746	42.004	Data
51	69.095	6.520	57.005	46.746	41.989	Data
51	69.262	6.536	57.052	46.745	42.004	Data
52.5	69.783	6.477	57.017	46.747	41.996	Data
52.5	69.357	6.514	57.044	46.74	42.008	Data
52.5	69.922	6.487	57.026	46.747	41.986	Data
52.5	69.201	6.499	57.051	46.739	42.009	Data
54	69.898	6.552	57.009	46.742	41.990	Data
54	69.649	6.425	57.010	46.742	41.991	Data
54	70.467	6.454	56.975	46.743	41.998	Data
54	69.805	6.516	56.984	46.743	41.989	Data
55	69.898	6.552	57.009	46.742	41.990	Data
55	69.649	6.425	57.010	46.742	41.991	Data
55	70.467	6.454	56.975	46.743	41.998	Data
55	69.805	6.516	56.984	46.743	41.989	Data
56	69.649	6.425	57.010	46.742	41.991	Data
56	69.898	6.552	57.009	46.742	41.990	Data
56	70.467	6.454	56.975	46.743	41.998	Data
56	69.805	6.516	56.984	46.743	41.989	Data
57	69.649	6.425	57.010	46.742	41.991	Data
57	69.898	6.552	57.009	46.742	41.990	Data
57	70.467	6.454	56.975	46.743	41.998	Data
57	69.805	6.516	56.984	46.743	41.989	Data
58.5	69.783	6.477	57.017	46.747	41.996	Data
58.5	69.357	6.514	57.044	46.74	42.008	Data
58.5	69.922	6.487	57.026	46.747	41.986	Data
58.5	69.201	6.499	57.051	46.739	42.009	Data
60.5	69.523	6.592	57.009	46.742	42.022	Data
60.5	69.168	6.506	57.046	46.759	41.996	Data
60.5	69.073	6.474	57.039	46.757	41.999	Data
60.5	70.013	6.470	57.013	46.741	41.993	Data
61.75	69.523	6.592	57.009	46.742	42.022	Data
61.75	69.168	6.506	57.046	46.759	41.996	Data
61.75	70.013	6.470	57.013	46.741	41.993	Data
61.75	69.073	6.474	57.039	46.757	41.999	Data
63	69.523	6.592	57.009	46.742	42.022	Data
63	69.168	6.506	57.046	46.759	41.996	Data
63	70.013	6.470	57.013	46.741	41.993	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	69.073	6.474	57.039	46.757	41.999	Data
64	69.523	6.592	57.009	46.742	42.022	Data
64	70.013	6.470	57.013	46.741	41.993	Data
64	69.168	6.506	57.046	46.759	41.996	Data
64	69.073	6.474	57.039	46.757	41.999	Data

Table 344: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.883	6.474	57.021	46.746	42.995	Data
8	69.482	6.481	57.018	46.746	42.994	Data
30	69.841	6.534	56.977	46.742	43.001	Data
30	68.892	6.553	57.058	46.745	43.007	Data
30	69.482	6.481	57.018	46.746	42.994	Data
30	69.883	6.474	57.021	46.746	42.995	Data
30	68.691	6.536	57.056	46.744	43.007	Data
30	70.286	6.477	56.995	46.749	43.001	Data
30	70.003	6.554	57.001	46.74	42.998	Data
30	69.841	6.490	56.981	46.741	43.001	Data
30	70.077	6.511	56.999	46.747	43.001	Data
30	69.474	6.607	57.010	46.741	42.999	Data
42	70.077	6.511	56.999	46.747	43.001	Data
42	70.286	6.477	56.995	46.749	43.001	Data
43	70.077	6.511	56.999	46.747	43.001	Data
43	70.286	6.477	56.995	46.749	43.001	Data
44	70.077	6.511	56.999	46.747	43.001	Data
44	70.286	6.477	56.995	46.749	43.001	Data
45	70.077	6.511	56.999	46.747	43.001	Data
45	70.286	6.477	56.995	46.749	43.001	Data
46.5	69.883	6.474	57.021	46.746	42.995	Data
46.5	69.482	6.481	57.018	46.746	42.994	Data
48	68.892	6.553	57.058	46.745	43.007	Data
48	68.691	6.536	57.056	46.744	43.007	Data
49	68.892	6.553	57.058	46.745	43.007	Data
49	68.691	6.536	57.056	46.744	43.007	Data
50	68.892	6.553	57.058	46.745	43.007	Data
50	68.691	6.536	57.056	46.744	43.007	Data
51	68.892	6.553	57.058	46.745	43.007	Data
51	68.691	6.536	57.056	46.744	43.007	Data
52.5	69.883	6.474	57.021	46.746	42.995	Data
52.5	69.482	6.481	57.018	46.746	42.994	Data
54	69.841	6.534	56.977	46.742	43.001	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.841	6.490	56.981	46.741	43.001	Data
55	69.841	6.534	56.977	46.742	43.001	Data
55	69.841	6.490	56.981	46.741	43.001	Data
56	69.841	6.534	56.977	46.742	43.001	Data
56	69.841	6.490	56.981	46.741	43.001	Data
57	69.841	6.534	56.977	46.742	43.001	Data
57	69.841	6.490	56.981	46.741	43.001	Data
58.5	69.883	6.474	57.021	46.746	42.995	Data
58.5	69.482	6.481	57.018	46.746	42.994	Data
60.5	69.474	6.607	57.010	46.741	42.999	Data
60.5	70.003	6.554	57.001	46.74	42.998	Data
61.75	69.474	6.607	57.010	46.741	42.999	Data
61.75	70.003	6.554	57.001	46.74	42.998	Data
63	69.474	6.607	57.010	46.741	42.999	Data
63	70.003	6.554	57.001	46.74	42.998	Data
64	70.003	6.554	57.001	46.74	42.998	Data
64	69.474	6.607	57.010	46.741	42.999	Data

Table 345: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.039	6.499	57.012	46.746	43.999	Data
8	69.760	6.478	57.008	46.747	43.999	Data
8	68.480	6.525	56.984	46.745	44.005	Data
8	69.243	6.578	56.982	46.743	44.005	Data
30	68.102	6.523	57.051	46.743	43.960	Data
30	68.789	6.547	57.050	46.742	43.960	Data
30	68.490	6.550	57.056	46.746	44.003	Data
30	69.039	6.499	57.012	46.746	43.999	Data
30	69.868	6.482	56.998	46.748	44.009	Data
30	70.071	6.497	56.986	46.745	44.000	Data
30	69.851	6.516	56.985	46.745	44.000	Data
30	70.448	6.517	56.974	46.742	43.995	Data
30	69.760	6.478	57.008	46.747	43.999	Data
30	69.243	6.578	56.982	46.743	44.005	Data
30	69.057	6.496	57.011	46.741	43.998	Data
30	69.457	6.546	57.000	46.739	43.998	Data
30	69.496	6.433	57.005	46.74	43.997	Data
30	69.327	6.553	57.001	46.747	44.009	Data
30	69.938	6.511	57.005	46.74	43.975	Data
30	69.663	6.535	56.979	46.741	43.995	Data
30	69.686	6.534	56.998	46.742	43.974	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.480	6.525	56.984	46.745	44.005	Data
30	68.774	6.553	57.061	46.745	44.003	Data
30	69.579	6.560	56.997	46.739	43.998	Data
42	69.868	6.482	56.998	46.748	44.009	Data
42	69.057	6.496	57.011	46.741	43.998	Data
42	69.327	6.553	57.001	46.747	44.009	Data
42	69.496	6.433	57.005	46.74	43.997	Data
43	69.868	6.482	56.998	46.748	44.009	Data
43	69.057	6.496	57.011	46.741	43.998	Data
43	69.327	6.553	57.001	46.747	44.009	Data
43	69.496	6.433	57.005	46.74	43.997	Data
44	69.868	6.482	56.998	46.748	44.009	Data
44	69.057	6.496	57.011	46.741	43.998	Data
44	69.327	6.553	57.001	46.747	44.009	Data
44	69.496	6.433	57.005	46.74	43.997	Data
45	69.868	6.482	56.998	46.748	44.009	Data
45	69.057	6.496	57.011	46.741	43.998	Data
45	69.327	6.553	57.001	46.747	44.009	Data
45	69.496	6.433	57.005	46.74	43.997	Data
46.5	69.039	6.499	57.012	46.746	43.999	Data
46.5	68.480	6.525	56.984	46.745	44.005	Data
46.5	69.760	6.478	57.008	46.747	43.999	Data
46.5	69.243	6.578	56.982	46.743	44.005	Data
48	68.490	6.550	57.056	46.746	44.003	Data
48	68.789	6.547	57.050	46.742	43.960	Data
48	68.774	6.553	57.061	46.745	44.003	Data
48	68.102	6.523	57.051	46.743	43.960	Data
49	68.490	6.550	57.056	46.746	44.003	Data
49	68.789	6.547	57.050	46.742	43.960	Data
49	68.774	6.553	57.061	46.745	44.003	Data
49	68.102	6.523	57.051	46.743	43.960	Data
50	68.490	6.550	57.056	46.746	44.003	Data
50	68.789	6.547	57.050	46.742	43.960	Data
50	68.774	6.553	57.061	46.745	44.003	Data
50	68.102	6.523	57.051	46.743	43.960	Data
51	68.490	6.550	57.056	46.746	44.003	Data
51	68.789	6.547	57.050	46.742	43.960	Data
51	68.774	6.553	57.061	46.745	44.003	Data
51	68.102	6.523	57.051	46.743	43.960	Data
52.5	69.039	6.499	57.012	46.746	43.999	Data
52.5	69.760	6.478	57.008	46.747	43.999	Data
52.5	68.480	6.525	56.984	46.745	44.005	Data
52.5	69.243	6.578	56.982	46.743	44.005	Data
54	69.851	6.516	56.985	46.745	44.000	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	70.448	6.517	56.974	46.742	43.995	Data
54	69.663	6.535	56.979	46.741	43.995	Data
54	70.071	6.497	56.986	46.745	44.000	Data
55	69.851	6.516	56.985	46.745	44.000	Data
55	70.448	6.517	56.974	46.742	43.995	Data
55	69.663	6.535	56.979	46.741	43.995	Data
55	70.071	6.497	56.986	46.745	44.000	Data
56	69.851	6.516	56.985	46.745	44.000	Data
56	70.448	6.517	56.974	46.742	43.995	Data
56	69.663	6.535	56.979	46.741	43.995	Data
56	70.071	6.497	56.986	46.745	44.000	Data
57	69.851	6.516	56.985	46.745	44.000	Data
57	70.448	6.517	56.974	46.742	43.995	Data
57	69.663	6.535	56.979	46.741	43.995	Data
57	70.071	6.497	56.986	46.745	44.000	Data
58.5	69.760	6.478	57.008	46.747	43.999	Data
58.5	69.039	6.499	57.012	46.746	43.999	Data
58.5	68.480	6.525	56.984	46.745	44.005	Data
58.5	69.243	6.578	56.982	46.743	44.005	Data
60.5	69.457	6.546	57.000	46.739	43.998	Data
60.5	69.938	6.511	57.005	46.74	43.975	Data
60.5	69.579	6.560	56.997	46.739	43.998	Data
60.5	69.686	6.534	56.998	46.742	43.974	Data
61.75	69.457	6.546	57.000	46.739	43.998	Data
61.75	69.938	6.511	57.005	46.74	43.975	Data
61.75	69.579	6.560	56.997	46.739	43.998	Data
61.75	69.686	6.534	56.998	46.742	43.974	Data
63	69.457	6.546	57.000	46.739	43.998	Data
63	69.938	6.511	57.005	46.74	43.975	Data
63	69.579	6.560	56.997	46.739	43.998	Data
63	69.686	6.534	56.998	46.742	43.974	Data
64	69.457	6.546	57.000	46.739	43.998	Data
64	69.579	6.560	56.997	46.739	43.998	Data
64	69.938	6.511	57.005	46.74	43.975	Data
64	69.686	6.534	56.998	46.742	43.974	Data

Table 346: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.119	6.469	57.015	46.747	44.992	Data
8	69.183	6.501	57.022	46.746	44.992	Data
30	69.183	6.501	57.022	46.746	44.992	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.602	6.540	57.051	46.746	44.992	Data
30	69.787	6.525	56.977	46.742	45.002	Data
30	69.985	6.579	57.006	46.74	45.001	Data
30	67.836	6.522	57.050	46.746	44.992	Data
30	69.119	6.469	57.015	46.747	44.992	Data
30	69.833	6.532	57.003	46.747	44.995	Data
30	70.609	6.521	56.981	46.744	45.002	Data
30	69.395	6.531	57.003	46.748	44.995	Data
30	69.469	6.547	57.001	46.741	45.001	Data
42	69.833	6.532	57.003	46.747	44.995	Data
42	69.395	6.531	57.003	46.748	44.995	Data
43	69.833	6.532	57.003	46.747	44.995	Data
43	69.395	6.531	57.003	46.748	44.995	Data
44	69.833	6.532	57.003	46.747	44.995	Data
44	69.395	6.531	57.003	46.748	44.995	Data
45	69.833	6.532	57.003	46.747	44.995	Data
45	69.395	6.531	57.003	46.748	44.995	Data
46.5	69.183	6.501	57.022	46.746	44.992	Data
46.5	69.119	6.469	57.015	46.747	44.992	Data
48	67.836	6.522	57.050	46.746	44.992	Data
48	68.602	6.540	57.051	46.746	44.992	Data
49	67.836	6.522	57.050	46.746	44.992	Data
49	68.602	6.540	57.051	46.746	44.992	Data
50	67.836	6.522	57.050	46.746	44.992	Data
50	68.602	6.540	57.051	46.746	44.992	Data
51	67.836	6.522	57.050	46.746	44.992	Data
51	68.602	6.540	57.051	46.746	44.992	Data
52.5	69.183	6.501	57.022	46.746	44.992	Data
52.5	69.119	6.469	57.015	46.747	44.992	Data
54	69.787	6.525	56.977	46.742	45.002	Data
54	70.609	6.521	56.981	46.744	45.002	Data
55	69.787	6.525	56.977	46.742	45.002	Data
55	70.609	6.521	56.981	46.744	45.002	Data
56	69.787	6.525	56.977	46.742	45.002	Data
56	70.609	6.521	56.981	46.744	45.002	Data
57	69.787	6.525	56.977	46.742	45.002	Data
57	70.609	6.521	56.981	46.744	45.002	Data
58.5	69.183	6.501	57.022	46.746	44.992	Data
58.5	69.119	6.469	57.015	46.747	44.992	Data
60.5	69.985	6.579	57.006	46.74	45.001	Data
60.5	69.469	6.547	57.001	46.741	45.001	Data
61.75	69.985	6.579	57.006	46.74	45.001	Data
61.75	69.469	6.547	57.001	46.741	45.001	Data
63	69.985	6.579	57.006	46.74	45.001	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	69.469	6.547	57.001	46.741	45.001	Data
64	69.985	6.579	57.006	46.74	45.001	Data
64	69.469	6.547	57.001	46.741	45.001	Data

Table 347: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.348	6.492	57.053	46.743	46.003	Data
8	68.824	6.505	57.054	46.744	46.004	Data
8	69.397	6.528	57.018	46.746	45.997	Data
8	69.840	6.440	57.019	46.744	45.997	Data
30	69.397	6.528	57.018	46.746	45.997	Data
30	69.187	6.576	57.008	46.743	46.055	Data
30	70.030	6.577	57.002	46.741	46.055	Data
30	70.093	6.506	57.002	46.744	45.991	Data
30	68.762	6.510	57.059	46.744	46.008	Data
30	69.832	6.511	56.980	46.742	46.009	Data
30	69.494	6.494	57.041	46.747	45.995	Data
30	68.245	6.475	57.059	46.744	46.008	Data
30	69.864	6.518	57.007	46.74	45.989	Data
30	69.840	6.440	57.019	46.744	45.997	Data
30	69.966	6.496	57.006	46.745	45.991	Data
30	68.824	6.505	57.054	46.744	46.004	Data
30	69.348	6.492	57.053	46.743	46.003	Data
30	68.858	6.476	57.006	46.748	46.005	Data
30	69.544	6.463	57.020	46.741	46.000	Data
30	69.120	6.520	57.044	46.746	45.995	Data
30	69.750	6.534	56.981	46.743	46.009	Data
30	69.134	6.544	57.009	46.741	45.989	Data
30	69.839	6.545	57.016	46.743	46.000	Data
30	69.766	6.486	57.003	46.748	46.005	Data
42	70.093	6.506	57.002	46.744	45.991	Data
42	69.766	6.486	57.003	46.748	46.005	Data
42	69.966	6.496	57.006	46.745	45.991	Data
42	68.858	6.476	57.006	46.748	46.005	Data
43	70.093	6.506	57.002	46.744	45.991	Data
43	69.766	6.486	57.003	46.748	46.005	Data
43	68.858	6.476	57.006	46.748	46.005	Data
43	69.966	6.496	57.006	46.745	45.991	Data
44	70.093	6.506	57.002	46.744	45.991	Data
44	69.766	6.486	57.003	46.748	46.005	Data
44	68.858	6.476	57.006	46.748	46.005	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	69.966	6.496	57.006	46.745	45.991	Data
45	70.093	6.506	57.002	46.744	45.991	Data
45	69.766	6.486	57.003	46.748	46.005	Data
45	68.858	6.476	57.006	46.748	46.005	Data
45	69.966	6.496	57.006	46.745	45.991	Data
46.5	69.397	6.528	57.018	46.746	45.997	Data
46.5	69.840	6.440	57.019	46.744	45.997	Data
46.5	69.348	6.492	57.053	46.743	46.003	Data
46.5	68.824	6.505	57.054	46.744	46.004	Data
48	69.544	6.463	57.020	46.741	46.000	Data
48	68.762	6.510	57.059	46.744	46.008	Data
48	68.245	6.475	57.059	46.744	46.008	Data
48	69.839	6.545	57.016	46.743	46.000	Data
49	69.544	6.463	57.020	46.741	46.000	Data
49	68.762	6.510	57.059	46.744	46.008	Data
49	68.245	6.475	57.059	46.744	46.008	Data
49	69.839	6.545	57.016	46.743	46.000	Data
50	69.544	6.463	57.020	46.741	46.000	Data
50	69.839	6.545	57.016	46.743	46.000	Data
50	68.245	6.475	57.059	46.744	46.008	Data
50	68.762	6.510	57.059	46.744	46.008	Data
51	69.544	6.463	57.020	46.741	46.000	Data
51	69.839	6.545	57.016	46.743	46.000	Data
51	68.245	6.475	57.059	46.744	46.008	Data
51	68.762	6.510	57.059	46.744	46.008	Data
52.5	69.397	6.528	57.018	46.746	45.997	Data
52.5	69.348	6.492	57.053	46.743	46.003	Data
52.5	69.840	6.440	57.019	46.744	45.997	Data
52.5	68.824	6.505	57.054	46.744	46.004	Data
54	69.832	6.511	56.980	46.742	46.009	Data
54	69.134	6.544	57.009	46.741	45.989	Data
54	69.864	6.518	57.007	46.74	45.989	Data
54	69.750	6.534	56.981	46.743	46.009	Data
55	69.832	6.511	56.980	46.742	46.009	Data
55	69.134	6.544	57.009	46.741	45.989	Data
55	69.864	6.518	57.007	46.74	45.989	Data
55	69.750	6.534	56.981	46.743	46.009	Data
56	69.134	6.544	57.009	46.741	45.989	Data
56	69.832	6.511	56.980	46.742	46.009	Data
56	69.864	6.518	57.007	46.74	45.989	Data
56	69.750	6.534	56.981	46.743	46.009	Data
57	69.134	6.544	57.009	46.741	45.989	Data
57	69.832	6.511	56.980	46.742	46.009	Data
57	69.864	6.518	57.007	46.74	45.989	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	69.750	6.534	56.981	46.743	46.009	Data
58.5	69.397	6.528	57.018	46.746	45.997	Data
58.5	69.348	6.492	57.053	46.743	46.003	Data
58.5	69.840	6.440	57.019	46.744	45.997	Data
58.5	68.824	6.505	57.054	46.744	46.004	Data
60.5	69.120	6.520	57.044	46.746	45.995	Data
60.5	69.187	6.576	57.008	46.743	46.055	Data
60.5	69.494	6.494	57.041	46.747	45.995	Data
60.5	70.030	6.577	57.002	46.741	46.055	Data
61.75	69.120	6.520	57.044	46.746	45.995	Data
61.75	69.187	6.576	57.008	46.743	46.055	Data
61.75	69.494	6.494	57.041	46.747	45.995	Data
61.75	70.030	6.577	57.002	46.741	46.055	Data
63	69.120	6.520	57.044	46.746	45.995	Data
63	69.187	6.576	57.008	46.743	46.055	Data
63	69.494	6.494	57.041	46.747	45.995	Data
63	70.030	6.577	57.002	46.741	46.055	Data
64	69.120	6.520	57.044	46.746	45.995	Data
64	69.494	6.494	57.041	46.747	45.995	Data
64	69.187	6.576	57.008	46.743	46.055	Data
64	70.030	6.577	57.002	46.741	46.055	Data

Table 348: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.172	6.511	57.015	46.746	46.998	Data
8	69.288	6.519	57.014	46.746	46.999	Data
30	68.266	6.502	57.059	46.745	46.993	Data
30	69.608	6.549	57.066	46.746	46.992	Data
30	69.288	6.519	57.014	46.746	46.999	Data
30	69.172	6.511	57.015	46.746	46.998	Data
30	69.473	6.521	56.985	46.742	47.009	Data
30	70.003	6.503	57.003	46.749	47.008	Data
30	69.181	6.424	57.001	46.75	47.008	Data
30	68.959	6.549	57.001	46.744	47.009	Data
30	69.710	6.534	57.001	46.741	47.009	Data
30	69.509	6.518	56.982	46.742	47.009	Data
42	70.003	6.503	57.003	46.749	47.008	Data
42	69.181	6.424	57.001	46.75	47.008	Data
43	70.003	6.503	57.003	46.749	47.008	Data
43	69.181	6.424	57.001	46.75	47.008	Data
44	70.003	6.503	57.003	46.749	47.008	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	69.181	6.424	57.001	46.75	47.008	Data
45	69.181	6.424	57.001	46.75	47.008	Data
45	70.003	6.503	57.003	46.749	47.008	Data
46.5	69.172	6.511	57.015	46.746	46.998	Data
46.5	69.288	6.519	57.014	46.746	46.999	Data
48	68.266	6.502	57.059	46.745	46.993	Data
48	69.608	6.549	57.066	46.746	46.992	Data
49	68.266	6.502	57.059	46.745	46.993	Data
49	69.608	6.549	57.066	46.746	46.992	Data
50	68.266	6.502	57.059	46.745	46.993	Data
50	69.608	6.549	57.066	46.746	46.992	Data
51	68.266	6.502	57.059	46.745	46.993	Data
51	69.608	6.549	57.066	46.746	46.992	Data
52.5	69.172	6.511	57.015	46.746	46.998	Data
52.5	69.288	6.519	57.014	46.746	46.999	Data
54	69.509	6.518	56.982	46.742	47.009	Data
54	69.473	6.521	56.985	46.742	47.009	Data
55	69.509	6.518	56.982	46.742	47.009	Data
55	69.473	6.521	56.985	46.742	47.009	Data
56	69.509	6.518	56.982	46.742	47.009	Data
56	69.473	6.521	56.985	46.742	47.009	Data
57	69.509	6.518	56.982	46.742	47.009	Data
57	69.473	6.521	56.985	46.742	47.009	Data
58.5	69.172	6.511	57.015	46.746	46.998	Data
58.5	69.288	6.519	57.014	46.746	46.999	Data
60.5	68.959	6.549	57.001	46.744	47.009	Data
60.5	69.710	6.534	57.001	46.741	47.009	Data
61.75	68.959	6.549	57.001	46.744	47.009	Data
61.75	69.710	6.534	57.001	46.741	47.009	Data
63	68.959	6.549	57.001	46.744	47.009	Data
63	69.710	6.534	57.001	46.741	47.009	Data
64	68.959	6.549	57.001	46.744	47.009	Data
64	69.710	6.534	57.001	46.741	47.009	Data

Table 349: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.828	6.506	57.017	46.746	48.003	Data
8	69.819	6.484	57.014	46.743	48.003	Data
30	68.828	6.506	57.017	46.746	48.003	Data
30	69.209	6.574	57.062	46.744	48.006	Data
30	69.805	6.540	57.067	46.746	48.006	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.071	6.576	57.001	46.748	47.990	Data
30	69.819	6.484	57.014	46.743	48.003	Data
30	69.622	6.491	56.977	46.744	48.010	Data
30	69.719	6.525	57.001	46.742	47.998	Data
30	69.429	6.484	57.002	46.749	47.990	Data
30	69.440	6.546	57.004	46.741	47.998	Data
30	69.440	6.553	56.988	46.741	48.009	Data
42	69.429	6.484	57.002	46.749	47.990	Data
42	69.071	6.576	57.001	46.748	47.990	Data
43	69.429	6.484	57.002	46.749	47.990	Data
43	69.071	6.576	57.001	46.748	47.990	Data
44	69.429	6.484	57.002	46.749	47.990	Data
44	69.071	6.576	57.001	46.748	47.990	Data
45	69.429	6.484	57.002	46.749	47.990	Data
45	69.071	6.576	57.001	46.748	47.990	Data
46.5	68.828	6.506	57.017	46.746	48.003	Data
46.5	69.819	6.484	57.014	46.743	48.003	Data
48	69.805	6.540	57.067	46.746	48.006	Data
48	69.209	6.574	57.062	46.744	48.006	Data
49	69.805	6.540	57.067	46.746	48.006	Data
49	69.209	6.574	57.062	46.744	48.006	Data
50	69.805	6.540	57.067	46.746	48.006	Data
50	69.209	6.574	57.062	46.744	48.006	Data
51	69.805	6.540	57.067	46.746	48.006	Data
51	69.209	6.574	57.062	46.744	48.006	Data
52.5	69.819	6.484	57.014	46.743	48.003	Data
52.5	68.828	6.506	57.017	46.746	48.003	Data
54	69.622	6.491	56.977	46.744	48.010	Data
54	69.440	6.553	56.988	46.741	48.009	Data
55	69.440	6.553	56.988	46.741	48.009	Data
55	69.622	6.491	56.977	46.744	48.010	Data
56	69.440	6.553	56.988	46.741	48.009	Data
56	69.622	6.491	56.977	46.744	48.010	Data
57	69.440	6.553	56.988	46.741	48.009	Data
57	69.622	6.491	56.977	46.744	48.010	Data
58.5	69.819	6.484	57.014	46.743	48.003	Data
58.5	68.828	6.506	57.017	46.746	48.003	Data
60.5	69.440	6.546	57.004	46.741	47.998	Data
60.5	69.719	6.525	57.001	46.742	47.998	Data
61.75	69.440	6.546	57.004	46.741	47.998	Data
61.75	69.719	6.525	57.001	46.742	47.998	Data
63	69.440	6.546	57.004	46.741	47.998	Data
63	69.719	6.525	57.001	46.742	47.998	Data
64	69.440	6.546	57.004	46.741	47.998	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	69.719	6.525	57.001	46.742	47.998	Data

Table 350: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.588	6.466	57.021	46.745	49.014	Data
8	69.657	6.487	57.010	46.746	49.012	Data
30	69.194	6.523	57.069	46.745	49.004	Data
30	69.783	6.506	56.997	46.741	48.992	Data
30	69.756	6.513	56.989	46.741	48.992	Data
30	69.588	6.466	57.021	46.745	49.014	Data
30	69.657	6.487	57.010	46.746	49.012	Data
30	69.344	6.514	57.065	46.745	49.004	Data
30	69.528	6.566	57.005	46.741	48.989	Data
30	68.911	6.539	57.008	46.741	48.989	Data
30	68.356	6.524	57.000	46.749	49.008	Data
30	69.287	6.504	56.999	46.749	49.009	Data
42	68.356	6.524	57.000	46.749	49.008	Data
42	69.287	6.504	56.999	46.749	49.009	Data
43	68.356	6.524	57.000	46.749	49.008	Data
43	69.287	6.504	56.999	46.749	49.009	Data
44	68.356	6.524	57.000	46.749	49.008	Data
44	69.287	6.504	56.999	46.749	49.009	Data
45	68.356	6.524	57.000	46.749	49.008	Data
45	69.287	6.504	56.999	46.749	49.009	Data
46.5	69.588	6.466	57.021	46.745	49.014	Data
46.5	69.657	6.487	57.010	46.746	49.012	Data
48	69.194	6.523	57.069	46.745	49.004	Data
48	69.344	6.514	57.065	46.745	49.004	Data
49	69.194	6.523	57.069	46.745	49.004	Data
49	69.344	6.514	57.065	46.745	49.004	Data
50	69.194	6.523	57.069	46.745	49.004	Data
50	69.344	6.514	57.065	46.745	49.004	Data
51	69.194	6.523	57.069	46.745	49.004	Data
51	69.344	6.514	57.065	46.745	49.004	Data
52.5	69.588	6.466	57.021	46.745	49.014	Data
52.5	69.657	6.487	57.010	46.746	49.012	Data
54	69.756	6.513	56.989	46.741	48.992	Data
54	69.783	6.506	56.997	46.741	48.992	Data
55	69.756	6.513	56.989	46.741	48.992	Data
55	69.783	6.506	56.997	46.741	48.992	Data
56	69.756	6.513	56.989	46.741	48.992	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	69.783	6.506	56.997	46.741	48.992	Data
57	69.783	6.506	56.997	46.741	48.992	Data
57	69.756	6.513	56.989	46.741	48.992	Data
58.5	69.588	6.466	57.021	46.745	49.014	Data
58.5	69.657	6.487	57.010	46.746	49.012	Data
60.5	68.911	6.539	57.008	46.741	48.989	Data
60.5	69.528	6.566	57.005	46.741	48.989	Data
61.75	68.911	6.539	57.008	46.741	48.989	Data
61.75	69.528	6.566	57.005	46.741	48.989	Data
63	68.911	6.539	57.008	46.741	48.989	Data
63	69.528	6.566	57.005	46.741	48.989	Data
64	68.911	6.539	57.008	46.741	48.989	Data
64	69.528	6.566	57.005	46.741	48.989	Data

Table 351: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 4 VG at span y=46.5 (in)

D.27. Vertical VG vortex sweep at y=52.5 (in), q=70, α_{VG}=4, α_W=7, RO-tip

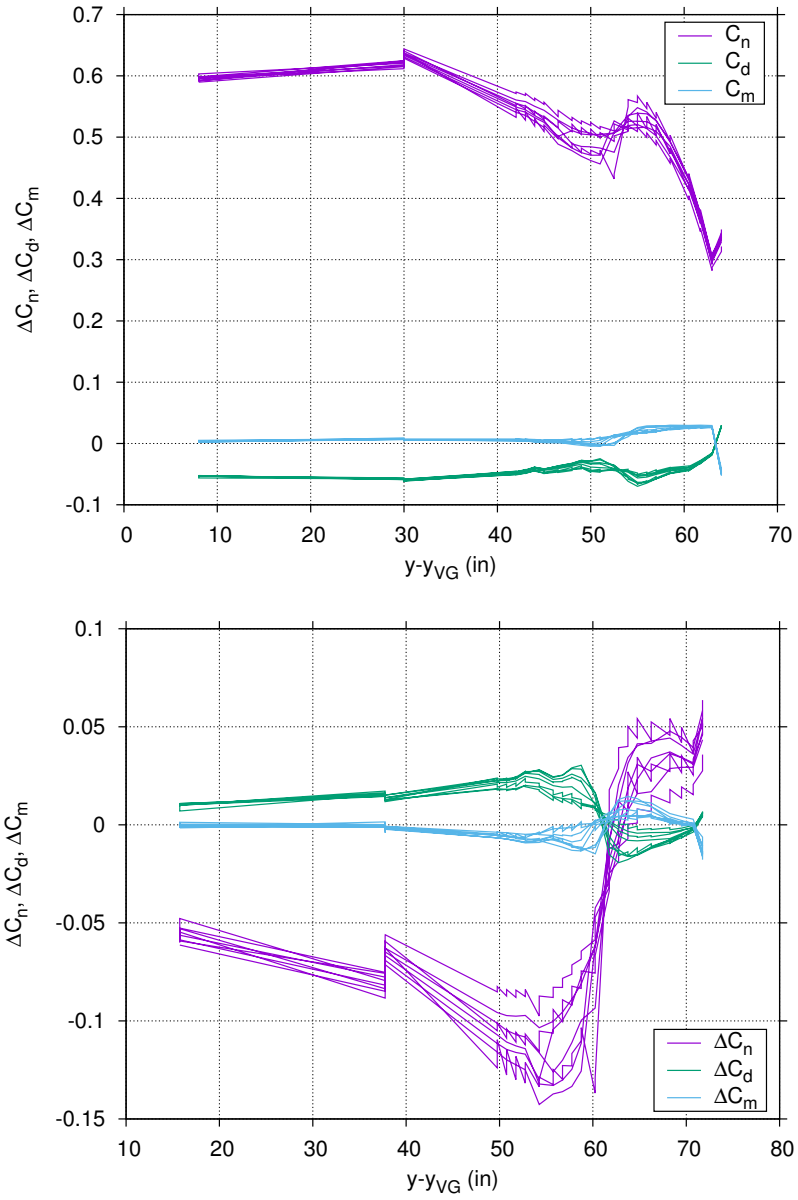

Figure 80. Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.799	6.474	57.060	52.753	42.007	Data
8	70.272	6.453	57.065	52.752	42.008	Data
8	69.925	6.484	57.046	52.749	42.000	Data
8	69.815	6.541	57.048	52.749	42.002	Data
30	70.516	6.564	57.068	52.746	42.004	Data
30	70.667	6.500	57.062	52.746	41.977	Data
30	69.925	6.484	57.046	52.749	42.000	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.197	6.540	57.013	52.749	41.961	Data
30	69.781	6.575	57.039	52.748	41.982	Data
30	70.591	6.490	57.030	52.748	41.981	Data
30	70.394	6.500	57.010	52.749	41.988	Data
30	69.799	6.474	57.060	52.753	42.007	Data
30	70.102	6.563	57.009	52.749	41.987	Data
30	68.557	6.464	57.014	52.745	41.982	Data
30	68.650	6.514	57.019	52.747	41.990	Data
30	70.272	6.453	57.065	52.752	42.008	Data
30	70.141	6.557	57.005	52.749	41.960	Data
30	70.747	6.497	57.014	52.74	42.001	Data
30	71.275	6.548	56.991	52.753	41.996	Data
30	68.807	6.566	57.011	52.746	41.982	Data
30	69.036	6.480	57.014	52.745	41.989	Data
30	71.325	6.535	56.994	52.752	41.994	Data
30	69.815	6.541	57.048	52.749	42.002	Data
30	70.079	6.470	57.008	52.742	42.000	Data
42	70.079	6.470	57.008	52.742	42.000	Data
42	71.325	6.535	56.994	52.752	41.994	Data
42	70.747	6.497	57.014	52.74	42.001	Data
42	71.275	6.548	56.991	52.753	41.996	Data
43	70.079	6.470	57.008	52.742	42.000	Data
43	71.325	6.535	56.994	52.752	41.994	Data
43	71.275	6.548	56.991	52.753	41.996	Data
43	70.747	6.497	57.014	52.74	42.001	Data
44	70.079	6.470	57.008	52.742	42.000	Data
44	71.325	6.535	56.994	52.752	41.994	Data
44	71.275	6.548	56.991	52.753	41.996	Data
44	70.747	6.497	57.014	52.74	42.001	Data
45	70.079	6.470	57.008	52.742	42.000	Data
45	71.325	6.535	56.994	52.752	41.994	Data
45	71.275	6.548	56.991	52.753	41.996	Data
45	70.747	6.497	57.014	52.74	42.001	Data
46.5	69.925	6.484	57.046	52.749	42.000	Data
46.5	70.272	6.453	57.065	52.752	42.008	Data
46.5	69.799	6.474	57.060	52.753	42.007	Data
46.5	69.815	6.541	57.048	52.749	42.002	Data
48	70.516	6.564	57.068	52.746	42.004	Data
48	68.650	6.514	57.019	52.747	41.990	Data
48	70.667	6.500	57.062	52.746	41.977	Data
48	69.036	6.480	57.014	52.745	41.989	Data
49	68.650	6.514	57.019	52.747	41.990	Data
49	70.516	6.564	57.068	52.746	42.004	Data
49	70.667	6.500	57.062	52.746	41.977	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
49	69.036	6.480	57.014	52.745	41.989	Data
50	68.650	6.514	57.019	52.747	41.990	Data
50	70.516	6.564	57.068	52.746	42.004	Data
50	70.667	6.500	57.062	52.746	41.977	Data
50	69.036	6.480	57.014	52.745	41.989	Data
51	68.650	6.514	57.019	52.747	41.990	Data
51	70.516	6.564	57.068	52.746	42.004	Data
51	70.667	6.500	57.062	52.746	41.977	Data
51	69.036	6.480	57.014	52.745	41.989	Data
52.5	69.925	6.484	57.046	52.749	42.000	Data
52.5	70.272	6.453	57.065	52.752	42.008	Data
52.5	69.799	6.474	57.060	52.753	42.007	Data
52.5	69.815	6.541	57.048	52.749	42.002	Data
54	70.102	6.563	57.009	52.749	41.987	Data
54	68.807	6.566	57.011	52.746	41.982	Data
54	68.557	6.464	57.014	52.745	41.982	Data
54	70.394	6.500	57.010	52.749	41.988	Data
55	70.102	6.563	57.009	52.749	41.987	Data
55	68.807	6.566	57.011	52.746	41.982	Data
55	68.557	6.464	57.014	52.745	41.982	Data
55	70.394	6.500	57.010	52.749	41.988	Data
56	70.102	6.563	57.009	52.749	41.987	Data
56	68.807	6.566	57.011	52.746	41.982	Data
56	68.557	6.464	57.014	52.745	41.982	Data
56	70.394	6.500	57.010	52.749	41.988	Data
57	70.102	6.563	57.009	52.749	41.987	Data
57	68.807	6.566	57.011	52.746	41.982	Data
57	68.557	6.464	57.014	52.745	41.982	Data
57	70.394	6.500	57.010	52.749	41.988	Data
58.5	69.925	6.484	57.046	52.749	42.000	Data
58.5	70.272	6.453	57.065	52.752	42.008	Data
58.5	69.799	6.474	57.060	52.753	42.007	Data
58.5	69.815	6.541	57.048	52.749	42.002	Data
60.5	70.591	6.490	57.030	52.748	41.981	Data
60.5	69.781	6.575	57.039	52.748	41.982	Data
60.5	70.197	6.540	57.013	52.749	41.961	Data
60.5	70.141	6.557	57.005	52.749	41.960	Data
61.75	70.591	6.490	57.030	52.748	41.981	Data
61.75	69.781	6.575	57.039	52.748	41.982	Data
61.75	70.141	6.557	57.005	52.749	41.960	Data
61.75	70.197	6.540	57.013	52.749	41.961	Data
63	70.591	6.490	57.030	52.748	41.981	Data
63	69.781	6.575	57.039	52.748	41.982	Data
63	70.197	6.540	57.013	52.749	41.961	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	70.141	6.557	57.005	52.749	41.960	Data
64	70.591	6.490	57.030	52.748	41.981	Data
64	70.197	6.540	57.013	52.749	41.961	Data
64	69.781	6.575	57.039	52.748	41.982	Data
64	70.141	6.557	57.005	52.749	41.960	Data

Table 352: Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.224	6.520	57.047	52.749	43.008	Data
8	70.073	6.553	57.044	52.75	43.008	Data
30	70.348	6.496	57.065	52.746	43.017	Data
30	69.802	6.494	57.006	52.745	43.000	Data
30	70.858	6.528	57.062	52.746	43.016	Data
30	69.577	6.497	57.015	52.747	43.001	Data
30	70.268	6.478	57.008	52.74	42.991	Data
30	70.224	6.520	57.047	52.749	43.008	Data
30	70.073	6.553	57.044	52.75	43.008	Data
30	70.583	6.527	57.009	52.74	42.990	Data
30	70.593	6.517	57.008	52.749	43.005	Data
30	70.501	6.538	57.003	52.75	43.006	Data
42	70.268	6.478	57.008	52.74	42.991	Data
42	70.583	6.527	57.009	52.74	42.990	Data
43	70.268	6.478	57.008	52.74	42.991	Data
43	70.583	6.527	57.009	52.74	42.990	Data
44	70.268	6.478	57.008	52.74	42.991	Data
44	70.583	6.527	57.009	52.74	42.990	Data
45	70.268	6.478	57.008	52.74	42.991	Data
45	70.583	6.527	57.009	52.74	42.990	Data
46.5	70.224	6.520	57.047	52.749	43.008	Data
46.5	70.073	6.553	57.044	52.75	43.008	Data
48	70.858	6.528	57.062	52.746	43.016	Data
48	70.348	6.496	57.065	52.746	43.017	Data
49	70.858	6.528	57.062	52.746	43.016	Data
49	70.348	6.496	57.065	52.746	43.017	Data
50	70.858	6.528	57.062	52.746	43.016	Data
50	70.348	6.496	57.065	52.746	43.017	Data
51	70.858	6.528	57.062	52.746	43.016	Data
51	70.348	6.496	57.065	52.746	43.017	Data
52.5	70.224	6.520	57.047	52.749	43.008	Data
52.5	70.073	6.553	57.044	52.75	43.008	Data
54	69.802	6.494	57.006	52.745	43.000	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.577	6.497	57.015	52.747	43.001	Data
55	69.802	6.494	57.006	52.745	43.000	Data
55	69.577	6.497	57.015	52.747	43.001	Data
56	69.802	6.494	57.006	52.745	43.000	Data
56	69.577	6.497	57.015	52.747	43.001	Data
57	69.802	6.494	57.006	52.745	43.000	Data
57	69.577	6.497	57.015	52.747	43.001	Data
58.5	70.224	6.520	57.047	52.749	43.008	Data
58.5	70.073	6.553	57.044	52.75	43.008	Data
60.5	70.593	6.517	57.008	52.749	43.005	Data
60.5	70.501	6.538	57.003	52.75	43.006	Data
61.75	70.593	6.517	57.008	52.749	43.005	Data
61.75	70.501	6.538	57.003	52.75	43.006	Data
63	70.593	6.517	57.008	52.749	43.005	Data
63	70.501	6.538	57.003	52.75	43.006	Data
64	70.593	6.517	57.008	52.749	43.005	Data
64	70.501	6.538	57.003	52.75	43.006	Data

Table 353: Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.573	6.548	57.052	52.748	44.003	Data
8	70.289	6.563	57.053	52.749	44.003	Data
8	69.372	6.604	56.986	52.751	44.006	Data
8	69.140	6.534	56.987	52.751	44.006	Data
30	70.098	6.623	57.003	52.749	44.016	Data
30	69.850	6.529	57.064	52.746	43.995	Data
30	69.024	6.525	57.008	52.746	44.000	Data
30	69.592	6.519	57.019	52.755	43.962	Data
30	70.607	6.480	56.988	52.75	43.999	Data
30	69.372	6.604	56.986	52.751	44.006	Data
30	69.259	6.472	57.009	52.745	44.000	Data
30	70.262	6.515	57.013	52.741	43.993	Data
30	68.428	6.518	57.016	52.756	43.961	Data
30	69.607	6.548	57.005	52.748	43.997	Data
30	70.016	6.509	57.069	52.748	43.995	Data
30	69.839	6.454	57.003	52.741	43.993	Data
30	70.289	6.563	57.053	52.749	44.003	Data
30	70.333	6.556	57.010	52.753	43.997	Data
30	69.573	6.548	57.052	52.748	44.003	Data
30	69.140	6.534	56.987	52.751	44.006	Data
30	70.677	6.546	57.008	52.752	43.997	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.594	6.546	56.993	52.75	43.998	Data
30	69.583	6.541	57.006	52.748	43.996	Data
30	70.515	6.515	57.008	52.748	44.016	Data
42	69.583	6.541	57.006	52.748	43.996	Data
42	69.839	6.454	57.003	52.741	43.993	Data
42	69.607	6.548	57.005	52.748	43.997	Data
42	70.262	6.515	57.013	52.741	43.993	Data
43	69.583	6.541	57.006	52.748	43.996	Data
43	69.839	6.454	57.003	52.741	43.993	Data
43	69.607	6.548	57.005	52.748	43.997	Data
43	70.262	6.515	57.013	52.741	43.993	Data
44	69.583	6.541	57.006	52.748	43.996	Data
44	69.839	6.454	57.003	52.741	43.993	Data
44	69.607	6.548	57.005	52.748	43.997	Data
44	70.262	6.515	57.013	52.741	43.993	Data
45	69.583	6.541	57.006	52.748	43.996	Data
45	69.839	6.454	57.003	52.741	43.993	Data
45	69.607	6.548	57.005	52.748	43.997	Data
45	70.262	6.515	57.013	52.741	43.993	Data
46.5	69.573	6.548	57.052	52.748	44.003	Data
46.5	69.140	6.534	56.987	52.751	44.006	Data
46.5	69.372	6.604	56.986	52.751	44.006	Data
46.5	70.289	6.563	57.053	52.749	44.003	Data
48	69.850	6.529	57.064	52.746	43.995	Data
48	70.016	6.509	57.069	52.748	43.995	Data
48	68.428	6.518	57.016	52.756	43.961	Data
48	69.592	6.519	57.019	52.755	43.962	Data
49	69.850	6.529	57.064	52.746	43.995	Data
49	70.016	6.509	57.069	52.748	43.995	Data
49	68.428	6.518	57.016	52.756	43.961	Data
49	69.592	6.519	57.019	52.755	43.962	Data
50	69.850	6.529	57.064	52.746	43.995	Data
50	70.016	6.509	57.069	52.748	43.995	Data
50	68.428	6.518	57.016	52.756	43.961	Data
50	69.592	6.519	57.019	52.755	43.962	Data
51	69.850	6.529	57.064	52.746	43.995	Data
51	70.016	6.509	57.069	52.748	43.995	Data
51	68.428	6.518	57.016	52.756	43.961	Data
51	69.592	6.519	57.019	52.755	43.962	Data
52.5	69.573	6.548	57.052	52.748	44.003	Data
52.5	69.140	6.534	56.987	52.751	44.006	Data
52.5	69.372	6.604	56.986	52.751	44.006	Data
52.5	70.289	6.563	57.053	52.749	44.003	Data
54	69.259	6.472	57.009	52.745	44.000	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.024	6.525	57.008	52.746	44.000	Data
54	70.607	6.480	56.988	52.75	43.999	Data
54	70.594	6.546	56.993	52.75	43.998	Data
55	69.259	6.472	57.009	52.745	44.000	Data
55	69.024	6.525	57.008	52.746	44.000	Data
55	70.607	6.480	56.988	52.75	43.999	Data
55	70.594	6.546	56.993	52.75	43.998	Data
56	69.259	6.472	57.009	52.745	44.000	Data
56	69.024	6.525	57.008	52.746	44.000	Data
56	70.607	6.480	56.988	52.75	43.999	Data
56	70.594	6.546	56.993	52.75	43.998	Data
57	69.259	6.472	57.009	52.745	44.000	Data
57	69.024	6.525	57.008	52.746	44.000	Data
57	70.607	6.480	56.988	52.75	43.999	Data
57	70.594	6.546	56.993	52.75	43.998	Data
58.5	69.140	6.534	56.987	52.751	44.006	Data
58.5	69.573	6.548	57.052	52.748	44.003	Data
58.5	69.372	6.604	56.986	52.751	44.006	Data
58.5	70.289	6.563	57.053	52.749	44.003	Data
60.5	70.098	6.623	57.003	52.749	44.016	Data
60.5	70.515	6.515	57.008	52.748	44.016	Data
60.5	70.333	6.556	57.010	52.753	43.997	Data
60.5	70.677	6.546	57.008	52.752	43.997	Data
61.75	70.098	6.623	57.003	52.749	44.016	Data
61.75	70.515	6.515	57.008	52.748	44.016	Data
61.75	70.333	6.556	57.010	52.753	43.997	Data
61.75	70.677	6.546	57.008	52.752	43.997	Data
63	70.098	6.623	57.003	52.749	44.016	Data
63	70.515	6.515	57.008	52.748	44.016	Data
63	70.333	6.556	57.010	52.753	43.997	Data
63	70.677	6.546	57.008	52.752	43.997	Data
64	70.098	6.623	57.003	52.749	44.016	Data
64	70.333	6.556	57.010	52.753	43.997	Data
64	70.515	6.515	57.008	52.748	44.016	Data
64	70.677	6.546	57.008	52.752	43.997	Data

Table 354: Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.215	6.471	57.047	52.748	44.992	Data
8	70.254	6.496	57.048	52.749	44.992	Data
30	68.813	6.492	57.005	52.746	45.005	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.701	6.544	57.062	52.746	45.015	Data
30	70.215	6.471	57.047	52.748	44.992	Data
30	70.324	6.597	57.010	52.75	45.004	Data
30	70.381	6.519	57.061	52.747	45.014	Data
30	70.254	6.496	57.048	52.749	44.992	Data
30	70.385	6.543	57.009	52.74	45.008	Data
30	70.819	6.546	57.004	52.751	45.004	Data
30	69.874	6.505	57.013	52.741	45.008	Data
30	68.247	6.507	57.006	52.746	45.005	Data
42	70.385	6.543	57.009	52.74	45.008	Data
42	69.874	6.505	57.013	52.741	45.008	Data
43	70.385	6.543	57.009	52.74	45.008	Data
43	69.874	6.505	57.013	52.741	45.008	Data
44	70.385	6.543	57.009	52.74	45.008	Data
44	69.874	6.505	57.013	52.741	45.008	Data
45	70.385	6.543	57.009	52.74	45.008	Data
45	69.874	6.505	57.013	52.741	45.008	Data
46.5	70.254	6.496	57.048	52.749	44.992	Data
46.5	70.215	6.471	57.047	52.748	44.992	Data
48	70.381	6.519	57.061	52.747	45.014	Data
48	69.701	6.544	57.062	52.746	45.015	Data
49	70.381	6.519	57.061	52.747	45.014	Data
49	69.701	6.544	57.062	52.746	45.015	Data
50	70.381	6.519	57.061	52.747	45.014	Data
50	69.701	6.544	57.062	52.746	45.015	Data
51	70.381	6.519	57.061	52.747	45.014	Data
51	69.701	6.544	57.062	52.746	45.015	Data
52.5	70.215	6.471	57.047	52.748	44.992	Data
52.5	70.254	6.496	57.048	52.749	44.992	Data
54	68.247	6.507	57.006	52.746	45.005	Data
54	68.813	6.492	57.005	52.746	45.005	Data
55	68.247	6.507	57.006	52.746	45.005	Data
55	68.813	6.492	57.005	52.746	45.005	Data
56	68.247	6.507	57.006	52.746	45.005	Data
56	68.813	6.492	57.005	52.746	45.005	Data
57	68.247	6.507	57.006	52.746	45.005	Data
57	68.813	6.492	57.005	52.746	45.005	Data
58.5	70.254	6.496	57.048	52.749	44.992	Data
58.5	70.215	6.471	57.047	52.748	44.992	Data
60.5	70.819	6.546	57.004	52.751	45.004	Data
60.5	70.324	6.597	57.010	52.75	45.004	Data
61.75	70.819	6.546	57.004	52.751	45.004	Data
61.75	70.324	6.597	57.010	52.75	45.004	Data
63	70.819	6.546	57.004	52.751	45.004	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	70.324	6.597	57.010	52.75	45.004	Data
64	70.819	6.546	57.004	52.751	45.004	Data
64	70.324	6.597	57.010	52.75	45.004	Data

Table 355: Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.157	6.505	57.028	52.749	46.002	Data
8	69.132	6.541	57.045	52.749	45.996	Data
8	68.943	6.534	57.050	52.75	45.996	Data
8	70.038	6.548	57.028	52.749	46.002	Data
30	69.753	6.526	57.062	52.747	46.011	Data
30	70.521	6.538	57.021	52.746	45.999	Data
30	70.465	6.567	57.006	52.741	46.001	Data
30	70.908	6.502	57.005	52.75	45.989	Data
30	69.855	6.524	57.066	52.746	46.011	Data
30	68.873	6.515	57.006	52.745	46.021	Data
30	69.407	6.487	57.005	52.749	45.988	Data
30	70.157	6.505	57.028	52.749	46.002	Data
30	69.230	6.535	56.997	52.751	45.989	Data
30	68.791	6.517	57.007	52.745	46.021	Data
30	69.410	6.511	57.035	52.75	45.987	Data
30	68.943	6.534	57.050	52.75	45.996	Data
30	69.854	6.516	57.039	52.75	45.986	Data
30	70.770	6.574	57.011	52.751	45.999	Data
30	69.744	6.486	57.007	52.74	46.001	Data
30	69.132	6.541	57.045	52.749	45.996	Data
30	70.169	6.494	57.005	52.75	46.000	Data
30	70.450	6.486	57.015	52.747	45.999	Data
30	70.038	6.548	57.028	52.749	46.002	Data
30	70.931	6.495	57.009	52.749	45.990	Data
42	70.908	6.502	57.005	52.75	45.989	Data
42	70.465	6.567	57.006	52.741	46.001	Data
42	70.931	6.495	57.009	52.749	45.990	Data
42	69.744	6.486	57.007	52.74	46.001	Data
43	70.908	6.502	57.005	52.75	45.989	Data
43	70.465	6.567	57.006	52.741	46.001	Data
43	70.931	6.495	57.009	52.749	45.990	Data
43	69.744	6.486	57.007	52.74	46.001	Data
44	70.908	6.502	57.005	52.75	45.989	Data
44	70.465	6.567	57.006	52.741	46.001	Data
44	70.931	6.495	57.009	52.749	45.990	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	69.744	6.486	57.007	52.74	46.001	Data
45	70.908	6.502	57.005	52.75	45.989	Data
45	70.465	6.567	57.006	52.741	46.001	Data
45	70.931	6.495	57.009	52.749	45.990	Data
45	69.744	6.486	57.007	52.74	46.001	Data
46.5	70.157	6.505	57.028	52.749	46.002	Data
46.5	68.943	6.534	57.050	52.75	45.996	Data
46.5	69.132	6.541	57.045	52.749	45.996	Data
46.5	70.038	6.548	57.028	52.749	46.002	Data
48	70.521	6.538	57.021	52.746	45.999	Data
48	69.753	6.526	57.062	52.747	46.011	Data
48	69.855	6.524	57.066	52.746	46.011	Data
48	70.450	6.486	57.015	52.747	45.999	Data
49	70.521	6.538	57.021	52.746	45.999	Data
49	69.753	6.526	57.062	52.747	46.011	Data
49	69.855	6.524	57.066	52.746	46.011	Data
49	70.450	6.486	57.015	52.747	45.999	Data
50	70.521	6.538	57.021	52.746	45.999	Data
50	69.753	6.526	57.062	52.747	46.011	Data
50	69.855	6.524	57.066	52.746	46.011	Data
50	70.450	6.486	57.015	52.747	45.999	Data
51	69.855	6.524	57.066	52.746	46.011	Data
51	70.521	6.538	57.021	52.746	45.999	Data
51	69.753	6.526	57.062	52.747	46.011	Data
51	70.450	6.486	57.015	52.747	45.999	Data
52.5	70.157	6.505	57.028	52.749	46.002	Data
52.5	68.943	6.534	57.050	52.75	45.996	Data
52.5	70.038	6.548	57.028	52.749	46.002	Data
52.5	69.132	6.541	57.045	52.749	45.996	Data
54	69.407	6.487	57.005	52.749	45.988	Data
54	68.873	6.515	57.006	52.745	46.021	Data
54	69.230	6.535	56.997	52.751	45.989	Data
54	68.791	6.517	57.007	52.745	46.021	Data
55	69.407	6.487	57.005	52.749	45.988	Data
55	68.873	6.515	57.006	52.745	46.021	Data
55	69.230	6.535	56.997	52.751	45.989	Data
55	68.791	6.517	57.007	52.745	46.021	Data
56	69.407	6.487	57.005	52.749	45.988	Data
56	68.873	6.515	57.006	52.745	46.021	Data
56	69.230	6.535	56.997	52.751	45.989	Data
56	68.791	6.517	57.007	52.745	46.021	Data
57	69.407	6.487	57.005	52.749	45.988	Data
57	69.230	6.535	56.997	52.751	45.989	Data
57	68.873	6.515	57.006	52.745	46.021	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	68.791	6.517	57.007	52.745	46.021	Data
58.5	68.943	6.534	57.050	52.75	45.996	Data
58.5	70.157	6.505	57.028	52.749	46.002	Data
58.5	70.038	6.548	57.028	52.749	46.002	Data
58.5	69.132	6.541	57.045	52.749	45.996	Data
60.5	69.854	6.516	57.039	52.75	45.986	Data
60.5	70.770	6.574	57.011	52.751	45.999	Data
60.5	70.169	6.494	57.005	52.75	46.000	Data
60.5	69.410	6.511	57.035	52.75	45.987	Data
61.75	69.854	6.516	57.039	52.75	45.986	Data
61.75	70.770	6.574	57.011	52.751	45.999	Data
61.75	70.169	6.494	57.005	52.75	46.000	Data
61.75	69.410	6.511	57.035	52.75	45.987	Data
63	69.854	6.516	57.039	52.75	45.986	Data
63	70.169	6.494	57.005	52.75	46.000	Data
63	69.410	6.511	57.035	52.75	45.987	Data
63	70.770	6.574	57.011	52.751	45.999	Data
64	69.854	6.516	57.039	52.75	45.986	Data
64	69.410	6.511	57.035	52.75	45.987	Data
64	70.169	6.494	57.005	52.75	46.000	Data
64	70.770	6.574	57.011	52.751	45.999	Data

Table 356: Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.172	6.532	57.047	52.747	47.010	Data
8	69.837	6.493	57.045	52.748	47.010	Data
30	69.447	6.510	57.001	52.747	46.990	Data
30	69.837	6.493	57.045	52.748	47.010	Data
30	69.717	6.501	57.006	52.741	46.994	Data
30	68.708	6.525	57.003	52.747	46.990	Data
30	70.374	6.539	57.008	52.742	46.994	Data
30	70.150	6.533	57.063	52.746	47.005	Data
30	70.058	6.514	57.011	52.747	46.985	Data
30	70.185	6.503	57.060	52.745	47.005	Data
30	69.172	6.532	57.047	52.747	47.010	Data
30	69.945	6.544	57.005	52.749	46.986	Data
42	69.717	6.501	57.006	52.741	46.994	Data
42	70.374	6.539	57.008	52.742	46.994	Data
43	69.717	6.501	57.006	52.741	46.994	Data
43	70.374	6.539	57.008	52.742	46.994	Data
44	69.717	6.501	57.006	52.741	46.994	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	70.374	6.539	57.008	52.742	46.994	Data
45	69.717	6.501	57.006	52.741	46.994	Data
45	70.374	6.539	57.008	52.742	46.994	Data
46.5	69.172	6.532	57.047	52.747	47.010	Data
46.5	69.837	6.493	57.045	52.748	47.010	Data
48	70.150	6.533	57.063	52.746	47.005	Data
48	70.185	6.503	57.060	52.745	47.005	Data
49	70.150	6.533	57.063	52.746	47.005	Data
49	70.185	6.503	57.060	52.745	47.005	Data
50	70.150	6.533	57.063	52.746	47.005	Data
50	70.185	6.503	57.060	52.745	47.005	Data
51	70.150	6.533	57.063	52.746	47.005	Data
51	70.185	6.503	57.060	52.745	47.005	Data
52.5	69.172	6.532	57.047	52.747	47.010	Data
52.5	69.837	6.493	57.045	52.748	47.010	Data
54	69.447	6.510	57.001	52.747	46.990	Data
54	68.708	6.525	57.003	52.747	46.990	Data
55	69.447	6.510	57.001	52.747	46.990	Data
55	68.708	6.525	57.003	52.747	46.990	Data
56	69.447	6.510	57.001	52.747	46.990	Data
56	68.708	6.525	57.003	52.747	46.990	Data
57	69.447	6.510	57.001	52.747	46.990	Data
57	68.708	6.525	57.003	52.747	46.990	Data
58.5	69.837	6.493	57.045	52.748	47.010	Data
58.5	69.172	6.532	57.047	52.747	47.010	Data
60.5	70.058	6.514	57.011	52.747	46.985	Data
60.5	69.945	6.544	57.005	52.749	46.986	Data
61.75	70.058	6.514	57.011	52.747	46.985	Data
61.75	69.945	6.544	57.005	52.749	46.986	Data
63	70.058	6.514	57.011	52.747	46.985	Data
63	69.945	6.544	57.005	52.749	46.986	Data
64	70.058	6.514	57.011	52.747	46.985	Data
64	69.945	6.544	57.005	52.749	46.986	Data

Table 357: Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.523	6.530	57.048	52.745	47.997	Data
8	69.917	6.539	57.049	52.745	47.997	Data
30	68.993	6.496	57.004	52.746	48.003	Data
30	70.505	6.498	57.005	52.748	47.991	Data
30	70.423	6.565	57.066	52.746	48.005	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.917	6.539	57.049	52.745	47.997	Data
30	69.890	6.486	57.010	52.741	48.004	Data
30	70.523	6.530	57.048	52.745	47.997	Data
30	69.559	6.570	57.060	52.746	48.005	Data
30	68.756	6.467	56.999	52.746	48.003	Data
30	70.183	6.526	57.007	52.74	48.005	Data
30	70.309	6.543	57.006	52.748	47.990	Data
42	69.890	6.486	57.010	52.741	48.004	Data
42	70.183	6.526	57.007	52.74	48.005	Data
43	69.890	6.486	57.010	52.741	48.004	Data
43	70.183	6.526	57.007	52.74	48.005	Data
44	69.890	6.486	57.010	52.741	48.004	Data
44	70.183	6.526	57.007	52.74	48.005	Data
45	69.890	6.486	57.010	52.741	48.004	Data
45	70.183	6.526	57.007	52.74	48.005	Data
46.5	70.523	6.530	57.048	52.745	47.997	Data
46.5	69.917	6.539	57.049	52.745	47.997	Data
48	70.423	6.565	57.066	52.746	48.005	Data
48	69.559	6.570	57.060	52.746	48.005	Data
49	70.423	6.565	57.066	52.746	48.005	Data
49	69.559	6.570	57.060	52.746	48.005	Data
50	70.423	6.565	57.066	52.746	48.005	Data
50	69.559	6.570	57.060	52.746	48.005	Data
51	70.423	6.565	57.066	52.746	48.005	Data
51	69.559	6.570	57.060	52.746	48.005	Data
52.5	70.523	6.530	57.048	52.745	47.997	Data
52.5	69.917	6.539	57.049	52.745	47.997	Data
54	68.993	6.496	57.004	52.746	48.003	Data
54	68.756	6.467	56.999	52.746	48.003	Data
55	68.993	6.496	57.004	52.746	48.003	Data
55	68.756	6.467	56.999	52.746	48.003	Data
56	68.756	6.467	56.999	52.746	48.003	Data
56	68.993	6.496	57.004	52.746	48.003	Data
57	68.756	6.467	56.999	52.746	48.003	Data
57	68.993	6.496	57.004	52.746	48.003	Data
58.5	70.523	6.530	57.048	52.745	47.997	Data
58.5	69.917	6.539	57.049	52.745	47.997	Data
60.5	70.309	6.543	57.006	52.748	47.990	Data
60.5	70.505	6.498	57.005	52.748	47.991	Data
61.75	70.309	6.543	57.006	52.748	47.990	Data
61.75	70.505	6.498	57.005	52.748	47.991	Data
63	70.309	6.543	57.006	52.748	47.990	Data
63	70.505	6.498	57.005	52.748	47.991	Data
64	70.309	6.543	57.006	52.748	47.990	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	70.505	6.498	57.005	52.748	47.991	Data

Table 358: Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.813	6.565	57.043	52.745	48.996	Data
8	69.888	6.567	57.053	52.745	48.996	Data
30	69.813	6.565	57.043	52.745	48.996	Data
30	70.182	6.578	57.003	52.741	49.009	Data
30	69.888	6.567	57.053	52.745	48.996	Data
30	69.122	6.509	57.003	52.746	48.993	Data
30	70.565	6.583	57.006	52.747	48.989	Data
30	68.987	6.555	57.003	52.749	48.990	Data
30	69.817	6.503	57.068	52.745	49.005	Data
30	69.782	6.540	57.073	52.746	49.005	Data
30	68.436	6.454	57.005	52.746	48.993	Data
30	69.770	6.464	57.003	52.74	49.008	Data
42	70.182	6.578	57.003	52.741	49.009	Data
42	69.770	6.464	57.003	52.74	49.008	Data
43	70.182	6.578	57.003	52.741	49.009	Data
43	69.770	6.464	57.003	52.74	49.008	Data
44	70.182	6.578	57.003	52.741	49.009	Data
44	69.770	6.464	57.003	52.74	49.008	Data
45	70.182	6.578	57.003	52.741	49.009	Data
45	69.770	6.464	57.003	52.74	49.008	Data
46.5	69.888	6.567	57.053	52.745	48.996	Data
46.5	69.813	6.565	57.043	52.745	48.996	Data
48	69.782	6.540	57.073	52.746	49.005	Data
48	69.817	6.503	57.068	52.745	49.005	Data
49	69.782	6.540	57.073	52.746	49.005	Data
49	69.817	6.503	57.068	52.745	49.005	Data
50	69.782	6.540	57.073	52.746	49.005	Data
50	69.817	6.503	57.068	52.745	49.005	Data
51	69.782	6.540	57.073	52.746	49.005	Data
51	69.817	6.503	57.068	52.745	49.005	Data
52.5	69.888	6.567	57.053	52.745	48.996	Data
52.5	69.813	6.565	57.043	52.745	48.996	Data
54	68.436	6.454	57.005	52.746	48.993	Data
54	69.122	6.509	57.003	52.746	48.993	Data
55	68.436	6.454	57.005	52.746	48.993	Data
55	69.122	6.509	57.003	52.746	48.993	Data
56	68.436	6.454	57.005	52.746	48.993	Data

Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	69.122	6.509	57.003	52.746	48.993	Data
57	68.436	6.454	57.005	52.746	48.993	Data
57	69.122	6.509	57.003	52.746	48.993	Data
58.5	69.888	6.567	57.053	52.745	48.996	Data
58.5	69.813	6.565	57.043	52.745	48.996	Data
60.5	70.565	6.583	57.006	52.747	48.989	Data
60.5	68.987	6.555	57.003	52.749	48.990	Data
61.75	70.565	6.583	57.006	52.747	48.989	Data
61.75	68.987	6.555	57.003	52.749	48.990	Data
63	70.565	6.583	57.006	52.747	48.989	Data
63	68.987	6.555	57.003	52.749	48.990	Data
64	70.565	6.583	57.006	52.747	48.989	Data
64	68.987	6.555	57.003	52.749	48.990	Data

Table 359: Vertical sweep VG at 52.5 (in), q=70 RO-tip VG AoA 4 VG at span y=52.5 (in)

D.28. Vertical VG vortex sweep at y=58.5 (in), q=70, α_{VG}=4, α_W=7, RO-tip

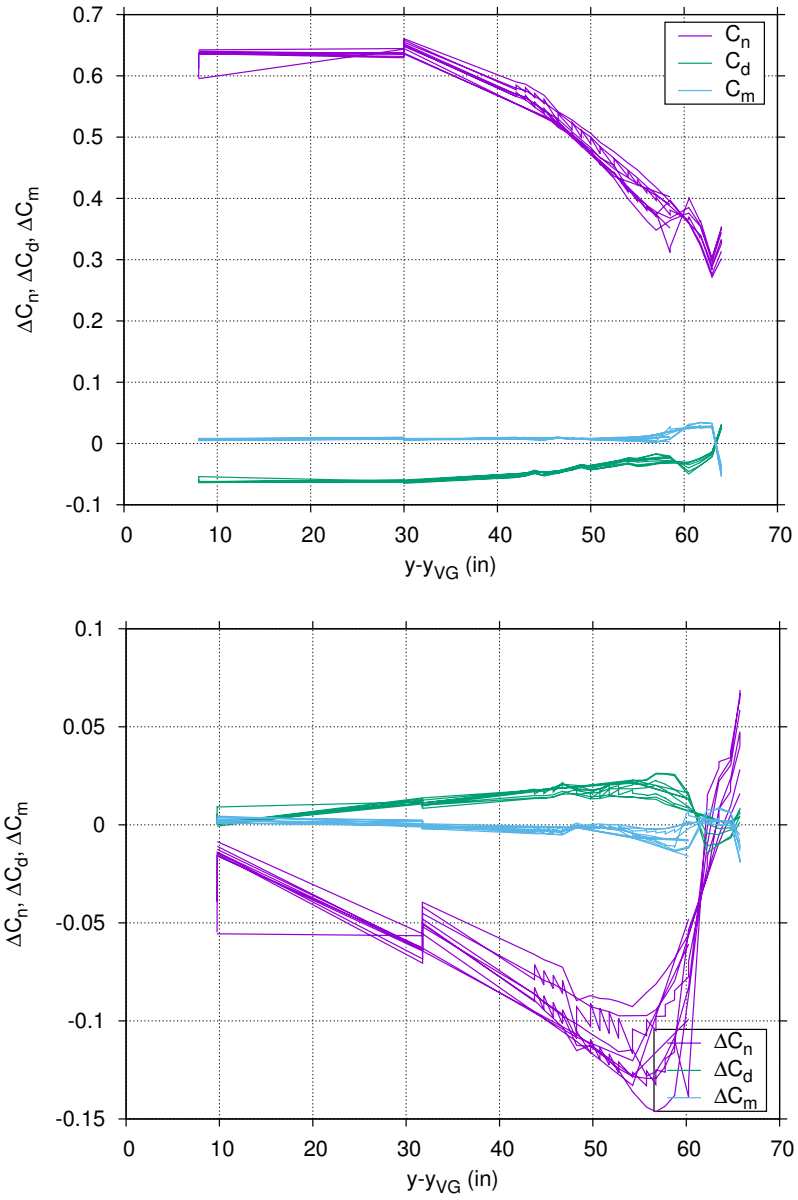

Figure 81. Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.313	6.529	57.054	58.76	42.007	Data
8	70.894	6.516	57.051	58.762	42.006	Data
30	70.278	6.516	57.031	58.752	41.972	Data
30	70.894	6.516	57.051	58.762	42.006	Data
30	70.313	6.529	57.054	58.76	42.007	Data
30	71.307	6.559	57.004	58.753	42.003	Data
30	70.578	6.509	57.013	58.761	41.997	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.419	6.484	57.017	58.758	41.982	Data
30	71.526	6.514	57.003	58.752	42.003	Data
30	69.264	6.467	57.012	58.76	41.997	Data
30	69.917	6.583	57.042	58.753	41.973	Data
30	70.649	6.520	57.014	58.759	41.982	Data
42	71.307	6.559	57.004	58.753	42.003	Data
42	71.526	6.514	57.003	58.752	42.003	Data
43	71.307	6.559	57.004	58.753	42.003	Data
43	71.526	6.514	57.003	58.752	42.003	Data
44	71.307	6.559	57.004	58.753	42.003	Data
44	71.526	6.514	57.003	58.752	42.003	Data
45	71.307	6.559	57.004	58.753	42.003	Data
45	71.526	6.514	57.003	58.752	42.003	Data
46.5	70.894	6.516	57.051	58.762	42.006	Data
46.5	70.313	6.529	57.054	58.76	42.007	Data
48	69.264	6.467	57.012	58.76	41.997	Data
48	70.578	6.509	57.013	58.761	41.997	Data
49	69.264	6.467	57.012	58.76	41.997	Data
49	70.578	6.509	57.013	58.761	41.997	Data
50	69.264	6.467	57.012	58.76	41.997	Data
50	70.578	6.509	57.013	58.761	41.997	Data
51	69.264	6.467	57.012	58.76	41.997	Data
51	70.578	6.509	57.013	58.761	41.997	Data
52.5	70.894	6.516	57.051	58.762	42.006	Data
52.5	70.313	6.529	57.054	58.76	42.007	Data
54	70.419	6.484	57.017	58.758	41.982	Data
54	70.649	6.520	57.014	58.759	41.982	Data
55	70.419	6.484	57.017	58.758	41.982	Data
55	70.649	6.520	57.014	58.759	41.982	Data
56	70.419	6.484	57.017	58.758	41.982	Data
56	70.649	6.520	57.014	58.759	41.982	Data
57	70.419	6.484	57.017	58.758	41.982	Data
57	70.649	6.520	57.014	58.759	41.982	Data
58.5	70.313	6.529	57.054	58.76	42.007	Data
58.5	70.894	6.516	57.051	58.762	42.006	Data
60.5	70.278	6.516	57.031	58.752	41.972	Data
60.5	69.917	6.583	57.042	58.753	41.973	Data
61.75	70.278	6.516	57.031	58.752	41.972	Data
61.75	69.917	6.583	57.042	58.753	41.973	Data
63	70.278	6.516	57.031	58.752	41.972	Data
63	69.917	6.583	57.042	58.753	41.973	Data
64	69.917	6.583	57.042	58.753	41.973	Data
64	70.278	6.516	57.031	58.752	41.972	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 360: Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.770	6.503	57.062	58.749	43.016	Data
30	69.776	6.468	57.026	58.744	43.015	Data
30	70.499	6.516	57.062	58.751	43.016	Data
30	71.479	6.549	57.004	58.743	43.001	Data
30	70.851	6.628	57.004	58.744	43.001	Data
30	70.964	6.419	57.011	58.748	42.994	Data
30	70.566	6.449	57.007	58.748	42.995	Data
30	69.587	6.506	57.018	58.743	43.015	Data
42	70.964	6.419	57.011	58.748	42.994	Data
42	70.566	6.449	57.007	58.748	42.995	Data
43	70.964	6.419	57.011	58.748	42.994	Data
43	70.566	6.449	57.007	58.748	42.995	Data
44	70.964	6.419	57.011	58.748	42.994	Data
44	70.566	6.449	57.007	58.748	42.995	Data
45	70.964	6.419	57.011	58.748	42.994	Data
45	70.566	6.449	57.007	58.748	42.995	Data
48	70.770	6.503	57.062	58.749	43.016	Data
48	70.499	6.516	57.062	58.751	43.016	Data
49	70.770	6.503	57.062	58.749	43.016	Data
49	70.499	6.516	57.062	58.751	43.016	Data
50	70.770	6.503	57.062	58.749	43.016	Data
50	70.499	6.516	57.062	58.751	43.016	Data
51	70.770	6.503	57.062	58.749	43.016	Data
51	70.499	6.516	57.062	58.751	43.016	Data
54	69.587	6.506	57.018	58.743	43.015	Data
54	69.776	6.468	57.026	58.744	43.015	Data
55	69.587	6.506	57.018	58.743	43.015	Data
55	69.776	6.468	57.026	58.744	43.015	Data
56	69.587	6.506	57.018	58.743	43.015	Data
56	69.776	6.468	57.026	58.744	43.015	Data
57	69.587	6.506	57.018	58.743	43.015	Data
57	69.776	6.468	57.026	58.744	43.015	Data
60.5	70.851	6.628	57.004	58.744	43.001	Data
60.5	71.479	6.549	57.004	58.743	43.001	Data
61.75	70.851	6.628	57.004	58.744	43.001	Data
61.75	71.479	6.549	57.004	58.743	43.001	Data
63	70.851	6.628	57.004	58.744	43.001	Data
63	71.479	6.549	57.004	58.743	43.001	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	70.851	6.628	57.004	58.744	43.001	Data
64	71.479	6.549	57.004	58.743	43.001	Data

Table 361: Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.352	6.572	56.985	58.75	44.010	Data
8	69.940	6.523	56.984	58.751	44.010	Data
8	69.991	6.570	56.982	58.741	44.002	Data
8	70.066	6.584	56.972	58.741	44.001	Data
30	71.433	6.527	56.991	58.75	43.995	Data
30	70.112	6.527	57.013	58.746	43.999	Data
30	69.767	6.556	56.995	58.755	43.965	Data
30	69.991	6.570	56.982	58.741	44.002	Data
30	69.826	6.493	57.018	58.742	44.009	Data
30	70.352	6.572	56.985	58.75	44.010	Data
30	69.940	6.523	56.984	58.751	44.010	Data
30	69.613	6.518	56.998	58.754	43.966	Data
30	71.245	6.541	57.013	58.75	43.995	Data
30	70.059	6.505	57.010	58.75	44.014	Data
30	70.601	6.514	57.013	58.749	44.014	Data
30	70.066	6.584	56.972	58.741	44.001	Data
30	70.672	6.537	57.010	58.744	44.002	Data
30	71.236	6.537	56.995	58.748	43.996	Data
30	69.264	6.484	57.026	58.743	44.009	Data
30	71.069	6.590	57.010	58.751	43.995	Data
30	70.907	6.547	57.067	58.75	44.013	Data
30	70.588	6.571	57.073	58.749	44.013	Data
30	71.283	6.615	57.008	58.745	44.001	Data
30	70.678	6.458	57.012	58.744	43.999	Data
42	70.059	6.505	57.010	58.75	44.014	Data
42	70.112	6.527	57.013	58.746	43.999	Data
42	70.601	6.514	57.013	58.749	44.014	Data
42	70.678	6.458	57.012	58.744	43.999	Data
43	70.059	6.505	57.010	58.75	44.014	Data
43	70.112	6.527	57.013	58.746	43.999	Data
43	70.601	6.514	57.013	58.749	44.014	Data
43	70.678	6.458	57.012	58.744	43.999	Data
44	70.059	6.505	57.010	58.75	44.014	Data
44	70.112	6.527	57.013	58.746	43.999	Data
44	70.601	6.514	57.013	58.749	44.014	Data
44	70.678	6.458	57.012	58.744	43.999	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	70.059	6.505	57.010	58.75	44.014	Data
45	70.112	6.527	57.013	58.746	43.999	Data
45	70.601	6.514	57.013	58.749	44.014	Data
45	70.678	6.458	57.012	58.744	43.999	Data
46.5	69.940	6.523	56.984	58.751	44.010	Data
46.5	69.991	6.570	56.982	58.741	44.002	Data
46.5	70.066	6.584	56.972	58.741	44.001	Data
46.5	70.352	6.572	56.985	58.75	44.010	Data
48	69.613	6.518	56.998	58.754	43.966	Data
48	70.907	6.547	57.067	58.75	44.013	Data
48	69.767	6.556	56.995	58.755	43.965	Data
48	70.588	6.571	57.073	58.749	44.013	Data
49	69.613	6.518	56.998	58.754	43.966	Data
49	70.907	6.547	57.067	58.75	44.013	Data
49	69.767	6.556	56.995	58.755	43.965	Data
49	70.588	6.571	57.073	58.749	44.013	Data
50	69.613	6.518	56.998	58.754	43.966	Data
50	70.907	6.547	57.067	58.75	44.013	Data
50	69.767	6.556	56.995	58.755	43.965	Data
50	70.588	6.571	57.073	58.749	44.013	Data
51	69.613	6.518	56.998	58.754	43.966	Data
51	70.907	6.547	57.067	58.75	44.013	Data
51	69.767	6.556	56.995	58.755	43.965	Data
51	70.588	6.571	57.073	58.749	44.013	Data
52.5	69.940	6.523	56.984	58.751	44.010	Data
52.5	69.991	6.570	56.982	58.741	44.002	Data
52.5	70.066	6.584	56.972	58.741	44.001	Data
52.5	70.352	6.572	56.985	58.75	44.010	Data
54	71.433	6.527	56.991	58.75	43.995	Data
54	71.236	6.537	56.995	58.748	43.996	Data
54	69.264	6.484	57.026	58.743	44.009	Data
54	69.826	6.493	57.018	58.742	44.009	Data
55	71.433	6.527	56.991	58.75	43.995	Data
55	71.236	6.537	56.995	58.748	43.996	Data
55	69.264	6.484	57.026	58.743	44.009	Data
55	69.826	6.493	57.018	58.742	44.009	Data
56	71.433	6.527	56.991	58.75	43.995	Data
56	71.236	6.537	56.995	58.748	43.996	Data
56	69.264	6.484	57.026	58.743	44.009	Data
56	69.826	6.493	57.018	58.742	44.009	Data
57	71.433	6.527	56.991	58.75	43.995	Data
57	71.236	6.537	56.995	58.748	43.996	Data
57	69.264	6.484	57.026	58.743	44.009	Data
57	69.826	6.493	57.018	58.742	44.009	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
58.5	69.940	6.523	56.984	58.751	44.010	Data
58.5	69.991	6.570	56.982	58.741	44.002	Data
58.5	70.066	6.584	56.972	58.741	44.001	Data
58.5	70.352	6.572	56.985	58.75	44.010	Data
60.5	71.245	6.541	57.013	58.75	43.995	Data
60.5	70.672	6.537	57.010	58.744	44.002	Data
60.5	71.283	6.615	57.008	58.745	44.001	Data
60.5	71.069	6.590	57.010	58.751	43.995	Data
61.75	71.245	6.541	57.013	58.75	43.995	Data
61.75	70.672	6.537	57.010	58.744	44.002	Data
61.75	71.283	6.615	57.008	58.745	44.001	Data
61.75	71.069	6.590	57.010	58.751	43.995	Data
63	71.245	6.541	57.013	58.75	43.995	Data
63	70.672	6.537	57.010	58.744	44.002	Data
63	71.283	6.615	57.008	58.745	44.001	Data
63	71.069	6.590	57.010	58.751	43.995	Data
64	71.245	6.541	57.013	58.75	43.995	Data
64	71.283	6.615	57.008	58.745	44.001	Data
64	70.672	6.537	57.010	58.744	44.002	Data
64	71.069	6.590	57.010	58.751	43.995	Data

Table 362: Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.663	6.555	56.981	58.741	45.000	Data
8	70.230	6.594	56.980	58.742	45.000	Data
30	69.747	6.486	57.023	58.742	45.020	Data
30	69.663	6.555	56.981	58.741	45.000	Data
30	69.552	6.475	57.023	58.743	45.020	Data
30	70.685	6.454	57.064	58.749	45.016	Data
30	70.462	6.504	57.067	58.75	45.016	Data
30	70.796	6.519	57.011	58.749	44.993	Data
30	70.510	6.570	57.012	58.743	45.000	Data
30	70.230	6.594	56.980	58.742	45.000	Data
30	70.623	6.558	57.009	58.742	45.000	Data
30	70.360	6.456	57.013	58.75	44.993	Data
42	70.796	6.519	57.011	58.749	44.993	Data
42	70.360	6.456	57.013	58.75	44.993	Data
43	70.796	6.519	57.011	58.749	44.993	Data
43	70.360	6.456	57.013	58.75	44.993	Data
44	70.796	6.519	57.011	58.749	44.993	Data
44	70.360	6.456	57.013	58.75	44.993	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	70.796	6.519	57.011	58.749	44.993	Data
45	70.360	6.456	57.013	58.75	44.993	Data
46.5	69.663	6.555	56.981	58.741	45.000	Data
46.5	70.230	6.594	56.980	58.742	45.000	Data
48	70.685	6.454	57.064	58.749	45.016	Data
48	70.462	6.504	57.067	58.75	45.016	Data
49	70.462	6.504	57.067	58.75	45.016	Data
49	70.685	6.454	57.064	58.749	45.016	Data
50	70.685	6.454	57.064	58.749	45.016	Data
50	70.462	6.504	57.067	58.75	45.016	Data
51	70.685	6.454	57.064	58.749	45.016	Data
51	70.462	6.504	57.067	58.75	45.016	Data
52.5	69.663	6.555	56.981	58.741	45.000	Data
52.5	70.230	6.594	56.980	58.742	45.000	Data
54	69.747	6.486	57.023	58.742	45.020	Data
54	69.552	6.475	57.023	58.743	45.020	Data
55	69.747	6.486	57.023	58.742	45.020	Data
55	69.552	6.475	57.023	58.743	45.020	Data
56	69.747	6.486	57.023	58.742	45.020	Data
56	69.552	6.475	57.023	58.743	45.020	Data
57	69.747	6.486	57.023	58.742	45.020	Data
57	69.552	6.475	57.023	58.743	45.020	Data
58.5	69.663	6.555	56.981	58.741	45.000	Data
58.5	70.230	6.594	56.980	58.742	45.000	Data
60.5	70.510	6.570	57.012	58.743	45.000	Data
60.5	70.623	6.558	57.009	58.742	45.000	Data
61.75	70.510	6.570	57.012	58.743	45.000	Data
61.75	70.623	6.558	57.009	58.742	45.000	Data
63	70.510	6.570	57.012	58.743	45.000	Data
63	70.623	6.558	57.009	58.742	45.000	Data
64	70.623	6.558	57.009	58.742	45.000	Data
64	70.510	6.570	57.012	58.743	45.000	Data

Table 363: Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.780	6.504	57.026	58.751	46.001	Data
8	68.710	6.528	57.036	58.75	46.001	Data
8	69.910	6.611	56.978	58.741	45.973	Data
8	69.872	6.527	56.973	58.742	45.973	Data
30	69.910	6.611	56.978	58.741	45.973	Data
30	70.035	6.578	57.060	58.75	46.012	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.948	6.485	57.017	58.742	45.995	Data
30	69.044	6.516	57.020	58.76	45.990	Data
30	70.395	6.531	57.060	58.75	46.012	Data
30	69.872	6.527	56.973	58.742	45.973	Data
30	68.764	6.567	57.028	58.743	45.995	Data
30	68.710	6.528	57.036	58.75	46.001	Data
30	70.806	6.486	57.013	58.748	46.006	Data
30	71.165	6.561	57.020	58.756	45.998	Data
30	70.843	6.518	57.004	58.749	45.988	Data
30	69.011	6.484	57.017	58.758	45.990	Data
30	68.780	6.504	57.026	58.751	46.001	Data
30	70.294	6.509	57.027	58.755	45.998	Data
30	70.771	6.484	57.014	58.749	46.006	Data
30	69.996	6.496	57.039	58.755	45.988	Data
30	70.912	6.507	56.998	58.75	45.988	Data
30	70.311	6.547	57.035	58.755	45.988	Data
30	70.853	6.529	57.004	58.742	45.999	Data
30	69.919	6.611	57.000	58.744	45.999	Data
42	70.912	6.507	56.998	58.75	45.988	Data
42	70.806	6.486	57.013	58.748	46.006	Data
42	70.843	6.518	57.004	58.749	45.988	Data
42	70.771	6.484	57.014	58.749	46.006	Data
43	70.912	6.507	56.998	58.75	45.988	Data
43	70.806	6.486	57.013	58.748	46.006	Data
43	70.843	6.518	57.004	58.749	45.988	Data
43	70.771	6.484	57.014	58.749	46.006	Data
44	70.912	6.507	56.998	58.75	45.988	Data
44	70.806	6.486	57.013	58.748	46.006	Data
44	70.843	6.518	57.004	58.749	45.988	Data
44	70.771	6.484	57.014	58.749	46.006	Data
45	70.912	6.507	56.998	58.75	45.988	Data
45	70.806	6.486	57.013	58.748	46.006	Data
45	70.843	6.518	57.004	58.749	45.988	Data
45	70.771	6.484	57.014	58.749	46.006	Data
46.5	69.872	6.527	56.973	58.742	45.973	Data
46.5	69.910	6.611	56.978	58.741	45.973	Data
46.5	68.710	6.528	57.036	58.75	46.001	Data
46.5	68.780	6.504	57.026	58.751	46.001	Data
48	70.035	6.578	57.060	58.75	46.012	Data
48	71.165	6.561	57.020	58.756	45.998	Data
48	70.294	6.509	57.027	58.755	45.998	Data
48	70.395	6.531	57.060	58.75	46.012	Data
49	70.035	6.578	57.060	58.75	46.012	Data
49	71.165	6.561	57.020	58.756	45.998	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
49	70.294	6.509	57.027	58.755	45.998	Data
49	70.395	6.531	57.060	58.75	46.012	Data
50	70.035	6.578	57.060	58.75	46.012	Data
50	71.165	6.561	57.020	58.756	45.998	Data
50	70.294	6.509	57.027	58.755	45.998	Data
50	70.395	6.531	57.060	58.75	46.012	Data
51	71.165	6.561	57.020	58.756	45.998	Data
51	70.035	6.578	57.060	58.75	46.012	Data
51	70.294	6.509	57.027	58.755	45.998	Data
51	70.395	6.531	57.060	58.75	46.012	Data
52.5	68.710	6.528	57.036	58.75	46.001	Data
52.5	69.872	6.527	56.973	58.742	45.973	Data
52.5	69.910	6.611	56.978	58.741	45.973	Data
52.5	68.780	6.504	57.026	58.751	46.001	Data
54	69.948	6.485	57.017	58.742	45.995	Data
54	69.044	6.516	57.020	58.76	45.990	Data
54	69.011	6.484	57.017	58.758	45.990	Data
54	68.764	6.567	57.028	58.743	45.995	Data
55	69.948	6.485	57.017	58.742	45.995	Data
55	69.044	6.516	57.020	58.76	45.990	Data
55	69.011	6.484	57.017	58.758	45.990	Data
55	68.764	6.567	57.028	58.743	45.995	Data
56	69.948	6.485	57.017	58.742	45.995	Data
56	69.044	6.516	57.020	58.76	45.990	Data
56	69.011	6.484	57.017	58.758	45.990	Data
56	68.764	6.567	57.028	58.743	45.995	Data
57	69.948	6.485	57.017	58.742	45.995	Data
57	69.044	6.516	57.020	58.76	45.990	Data
57	69.011	6.484	57.017	58.758	45.990	Data
57	68.764	6.567	57.028	58.743	45.995	Data
58.5	68.780	6.504	57.026	58.751	46.001	Data
58.5	68.710	6.528	57.036	58.75	46.001	Data
58.5	69.872	6.527	56.973	58.742	45.973	Data
58.5	69.910	6.611	56.978	58.741	45.973	Data
60.5	69.996	6.496	57.039	58.755	45.988	Data
60.5	69.919	6.611	57.000	58.744	45.999	Data
60.5	70.853	6.529	57.004	58.742	45.999	Data
60.5	70.311	6.547	57.035	58.755	45.988	Data
61.75	69.919	6.611	57.000	58.744	45.999	Data
61.75	69.996	6.496	57.039	58.755	45.988	Data
61.75	70.311	6.547	57.035	58.755	45.988	Data
61.75	70.853	6.529	57.004	58.742	45.999	Data
63	69.919	6.611	57.000	58.744	45.999	Data
63	69.996	6.496	57.039	58.755	45.988	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	70.311	6.547	57.035	58.755	45.988	Data
63	70.853	6.529	57.004	58.742	45.999	Data
64	70.311	6.547	57.035	58.755	45.988	Data
64	69.996	6.496	57.039	58.755	45.988	Data
64	69.919	6.611	57.000	58.744	45.999	Data
64	70.853	6.529	57.004	58.742	45.999	Data

Table 364: Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.258	6.568	56.973	58.739	46.479	Data
8	70.256	6.576	56.972	58.742	46.479	Data
30	70.258	6.568	56.973	58.739	46.479	Data
30	70.256	6.576	56.972	58.742	46.479	Data
46.5	70.256	6.576	56.972	58.742	46.479	Data
46.5	70.258	6.568	56.973	58.739	46.479	Data
52.5	70.256	6.576	56.972	58.742	46.479	Data
52.5	70.258	6.568	56.973	58.739	46.479	Data
58.5	70.256	6.576	56.972	58.742	46.479	Data
58.5	70.258	6.568	56.973	58.739	46.479	Data

Table 365: Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.450	6.555	56.968	58.74	46.993	Data
8	69.170	6.496	56.975	58.743	46.993	Data
30	69.450	6.555	56.968	58.74	46.993	Data
30	70.732	6.527	57.007	58.743	46.963	Data
30	70.557	6.472	57.059	58.751	47.008	Data
30	70.390	6.521	57.009	58.744	46.963	Data
30	69.873	6.545	57.018	58.744	47.022	Data
30	70.895	6.555	57.064	58.751	47.007	Data
30	69.170	6.496	56.975	58.743	46.993	Data
30	70.801	6.544	57.009	58.746	46.997	Data
30	69.910	6.521	57.027	58.742	47.022	Data
30	70.593	6.463	57.014	58.747	46.998	Data
42	70.593	6.463	57.014	58.747	46.998	Data
42	70.801	6.544	57.009	58.746	46.997	Data
43	70.593	6.463	57.014	58.747	46.998	Data
43	70.801	6.544	57.009	58.746	46.997	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	70.593	6.463	57.014	58.747	46.998	Data
44	70.801	6.544	57.009	58.746	46.997	Data
45	70.593	6.463	57.014	58.747	46.998	Data
45	70.801	6.544	57.009	58.746	46.997	Data
46.5	69.170	6.496	56.975	58.743	46.993	Data
46.5	69.450	6.555	56.968	58.74	46.993	Data
48	70.895	6.555	57.064	58.751	47.007	Data
48	70.557	6.472	57.059	58.751	47.008	Data
49	70.895	6.555	57.064	58.751	47.007	Data
49	70.557	6.472	57.059	58.751	47.008	Data
50	70.895	6.555	57.064	58.751	47.007	Data
50	70.557	6.472	57.059	58.751	47.008	Data
51	70.895	6.555	57.064	58.751	47.007	Data
51	70.557	6.472	57.059	58.751	47.008	Data
52.5	69.170	6.496	56.975	58.743	46.993	Data
52.5	69.450	6.555	56.968	58.74	46.993	Data
54	69.910	6.521	57.027	58.742	47.022	Data
54	69.873	6.545	57.018	58.744	47.022	Data
55	69.910	6.521	57.027	58.742	47.022	Data
55	69.873	6.545	57.018	58.744	47.022	Data
56	69.910	6.521	57.027	58.742	47.022	Data
56	69.873	6.545	57.018	58.744	47.022	Data
57	69.910	6.521	57.027	58.742	47.022	Data
57	69.873	6.545	57.018	58.744	47.022	Data
58.5	69.170	6.496	56.975	58.743	46.993	Data
58.5	69.450	6.555	56.968	58.74	46.993	Data
60.5	70.732	6.527	57.007	58.743	46.963	Data
60.5	70.390	6.521	57.009	58.744	46.963	Data
61.75	70.732	6.527	57.007	58.743	46.963	Data
61.75	70.390	6.521	57.009	58.744	46.963	Data
63	70.732	6.527	57.007	58.743	46.963	Data
63	70.390	6.521	57.009	58.744	46.963	Data
64	70.390	6.521	57.009	58.744	46.963	Data
64	70.732	6.527	57.007	58.743	46.963	Data

Table 366: Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.366	6.560	56.972	58.741	47.494	Data
8	69.743	6.542	56.970	58.741	47.494	Data
30	69.366	6.560	56.972	58.741	47.494	Data
30	69.743	6.542	56.970	58.741	47.494	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	69.366	6.560	56.972	58.741	47.494	Data
46.5	69.743	6.542	56.970	58.741	47.494	Data
52.5	69.366	6.560	56.972	58.741	47.494	Data
52.5	69.743	6.542	56.970	58.741	47.494	Data
58.5	69.743	6.542	56.970	58.741	47.494	Data
58.5	69.366	6.560	56.972	58.741	47.494	Data

Table 367: Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.610	6.631	56.976	58.742	48.010	Data
8	69.145	6.608	56.970	58.741	48.010	Data
30	69.610	6.631	56.976	58.742	48.010	Data
30	69.929	6.560	57.021	58.743	48.004	Data
30	70.815	6.499	57.070	58.749	47.992	Data
30	69.145	6.608	56.970	58.741	48.010	Data
30	70.627	6.593	57.005	58.744	48.006	Data
30	68.850	6.470	57.021	58.743	48.004	Data
30	70.813	6.583	57.008	58.744	48.007	Data
30	70.093	6.590	57.066	58.748	47.993	Data
30	70.775	6.507	57.009	58.748	47.991	Data
30	71.280	6.529	57.010	58.748	47.990	Data
42	70.775	6.507	57.009	58.748	47.991	Data
42	71.280	6.529	57.010	58.748	47.990	Data
43	70.775	6.507	57.009	58.748	47.991	Data
43	71.280	6.529	57.010	58.748	47.990	Data
44	70.775	6.507	57.009	58.748	47.991	Data
44	71.280	6.529	57.010	58.748	47.990	Data
45	70.775	6.507	57.009	58.748	47.991	Data
45	71.280	6.529	57.010	58.748	47.990	Data
46.5	69.145	6.608	56.970	58.741	48.010	Data
46.5	69.610	6.631	56.976	58.742	48.010	Data
48	70.815	6.499	57.070	58.749	47.992	Data
48	70.093	6.590	57.066	58.748	47.993	Data
49	70.815	6.499	57.070	58.749	47.992	Data
49	70.093	6.590	57.066	58.748	47.993	Data
50	70.815	6.499	57.070	58.749	47.992	Data
50	70.093	6.590	57.066	58.748	47.993	Data
51	70.815	6.499	57.070	58.749	47.992	Data
51	70.093	6.590	57.066	58.748	47.993	Data
52.5	69.145	6.608	56.970	58.741	48.010	Data
52.5	69.610	6.631	56.976	58.742	48.010	Data

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.929	6.560	57.021	58.743	48.004	Data
54	68.850	6.470	57.021	58.743	48.004	Data
55	69.929	6.560	57.021	58.743	48.004	Data
55	68.850	6.470	57.021	58.743	48.004	Data
56	69.929	6.560	57.021	58.743	48.004	Data
56	68.850	6.470	57.021	58.743	48.004	Data
57	69.929	6.560	57.021	58.743	48.004	Data
57	68.850	6.470	57.021	58.743	48.004	Data
58.5	69.610	6.631	56.976	58.742	48.010	Data
58.5	69.145	6.608	56.970	58.741	48.010	Data
60.5	70.627	6.593	57.005	58.744	48.006	Data
60.5	70.813	6.583	57.008	58.744	48.007	Data
61.75	70.627	6.593	57.005	58.744	48.006	Data
61.75	70.813	6.583	57.008	58.744	48.007	Data
63	70.627	6.593	57.005	58.744	48.006	Data
63	70.813	6.583	57.008	58.744	48.007	Data
64	70.627	6.593	57.005	58.744	48.006	Data
64	70.813	6.583	57.008	58.744	48.007	Data

Table 368: Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.812	6.685	56.979	58.74	48.988	Data
8	69.327	6.632	56.975	58.74	48.988	Data
30	69.812	6.685	56.979	58.74	48.988	Data
30	69.327	6.632	56.975	58.74	48.988	Data
46.5	69.327	6.632	56.975	58.74	48.988	Data
46.5	69.812	6.685	56.979	58.74	48.988	Data
52.5	69.327	6.632	56.975	58.74	48.988	Data
52.5	69.812	6.685	56.979	58.74	48.988	Data
58.5	69.327	6.632	56.975	58.74	48.988	Data
58.5	69.812	6.685	56.979	58.74	48.988	Data

Table 369: Vertical sweep VG at 58.5 (in), q=70 RO-tip VG AoA 4 VG at span y=58.5 (in)

D.29. Vertical VG vortex sweep at y=64.5 (in), q=70, α_{VG}=4, α_W=7, RO-tip

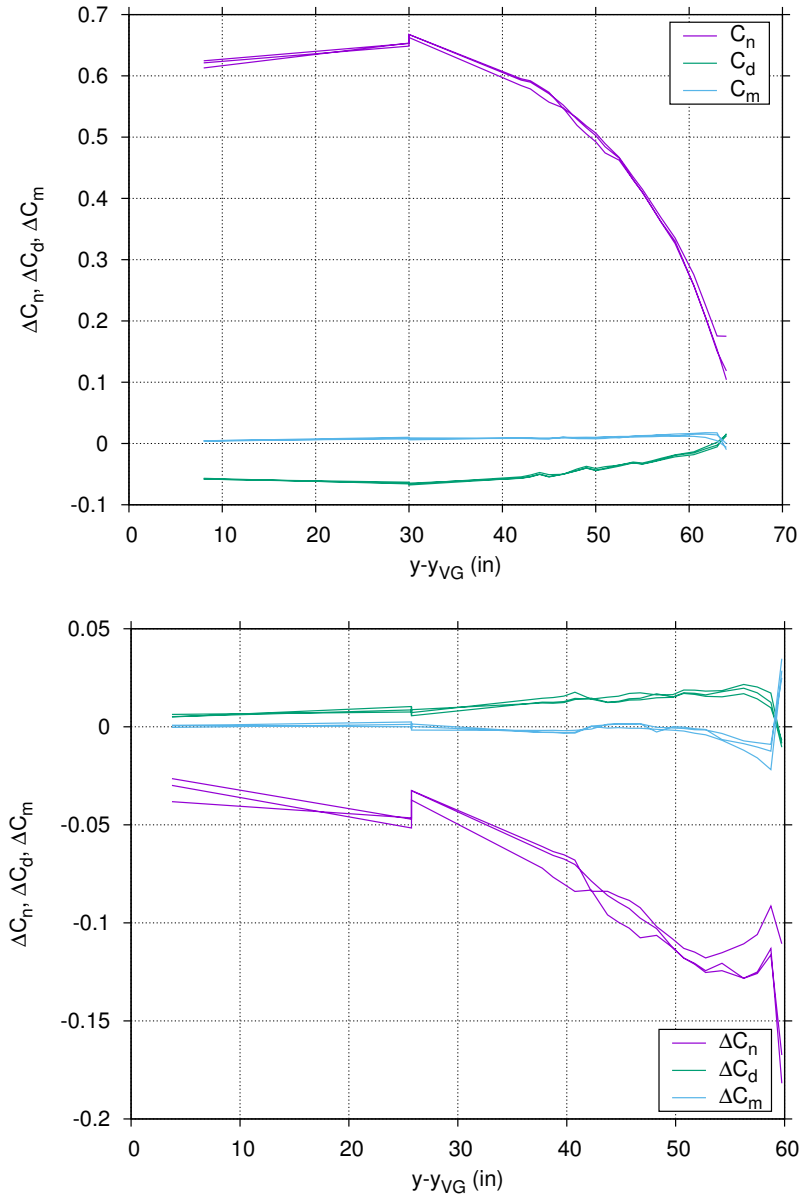

Figure 82. Vertical sweep VG at 64.5 (in), q=70 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 64.5 (in), q=70 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.180	6.531	56.957	64.75	45.005	Data
8	70.340	6.537	56.959	64.75	45.005	Data
30	70.505	6.513	57.010	64.755	45.026	Data
30	70.841	6.555	57.039	64.757	45.016	Data
30	71.032	6.499	57.042	64.758	45.015	Data
30	71.180	6.531	56.957	64.75	45.005	Data
30	70.184	6.516	57.008	64.756	45.025	Data

Vertical sweep VG at 64.5 (in), q=70 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.216	6.534	57.001	64.752	44.996	Data
30	70.974	6.499	56.999	64.752	44.995	Data
30	71.612	6.553	57.002	64.757	45.012	Data
30	70.340	6.537	56.959	64.75	45.005	Data
30	71.330	6.529	57.014	64.755	45.012	Data
42	71.216	6.534	57.001	64.752	44.996	Data
42	70.974	6.499	56.999	64.752	44.995	Data
43	71.216	6.534	57.001	64.752	44.996	Data
43	70.974	6.499	56.999	64.752	44.995	Data
44	70.974	6.499	56.999	64.752	44.995	Data
44	71.216	6.534	57.001	64.752	44.996	Data
45	70.974	6.499	56.999	64.752	44.995	Data
45	71.216	6.534	57.001	64.752	44.996	Data
46.5	70.340	6.537	56.959	64.75	45.005	Data
46.5	71.180	6.531	56.957	64.75	45.005	Data
48	70.841	6.555	57.039	64.757	45.016	Data
48	71.032	6.499	57.042	64.758	45.015	Data
49	70.841	6.555	57.039	64.757	45.016	Data
49	71.032	6.499	57.042	64.758	45.015	Data
50	70.841	6.555	57.039	64.757	45.016	Data
50	71.032	6.499	57.042	64.758	45.015	Data
51	70.841	6.555	57.039	64.757	45.016	Data
51	71.032	6.499	57.042	64.758	45.015	Data
52.5	70.340	6.537	56.959	64.75	45.005	Data
52.5	71.180	6.531	56.957	64.75	45.005	Data
54	70.505	6.513	57.010	64.755	45.026	Data
54	70.184	6.516	57.008	64.756	45.025	Data
55	70.505	6.513	57.010	64.755	45.026	Data
55	70.184	6.516	57.008	64.756	45.025	Data
56	70.505	6.513	57.010	64.755	45.026	Data
56	70.184	6.516	57.008	64.756	45.025	Data
57	70.505	6.513	57.010	64.755	45.026	Data
57	70.184	6.516	57.008	64.756	45.025	Data
58.5	70.340	6.537	56.959	64.75	45.005	Data
58.5	71.180	6.531	56.957	64.75	45.005	Data
60.5	71.612	6.553	57.002	64.757	45.012	Data
60.5	71.330	6.529	57.014	64.755	45.012	Data
61.75	71.612	6.553	57.002	64.757	45.012	Data
61.75	71.330	6.529	57.014	64.755	45.012	Data
63	71.612	6.553	57.002	64.757	45.012	Data
63	71.330	6.529	57.014	64.755	45.012	Data
64	71.612	6.553	57.002	64.757	45.012	Data
64	71.330	6.529	57.014	64.755	45.012	Data

Vertical sweep VG at 64.5 (in), q=70 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 370: Vertical sweep VG at 64.5 (in), q=70 RO-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=70 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.012	6.560	56.962	64.75	45.998	Data
8	70.681	6.512	56.960	64.75	45.998	Data
30	70.120	6.530	57.013	64.753	45.999	Data
30	70.737	6.554	57.043	64.755	45.999	Data
30	71.266	6.564	57.044	64.757	46.000	Data
30	70.726	6.537	57.001	64.751	45.998	Data
30	69.978	6.476	57.015	64.755	45.999	Data
30	71.012	6.560	56.962	64.75	45.998	Data
30	70.858	6.491	57.005	64.752	45.998	Data
30	70.701	6.516	57.006	64.756	45.993	Data
30	70.770	6.477	57.005	64.756	45.993	Data
30	70.681	6.512	56.960	64.75	45.998	Data
42	70.858	6.491	57.005	64.752	45.998	Data
42	70.726	6.537	57.001	64.751	45.998	Data
43	70.858	6.491	57.005	64.752	45.998	Data
43	70.726	6.537	57.001	64.751	45.998	Data
44	70.858	6.491	57.005	64.752	45.998	Data
44	70.726	6.537	57.001	64.751	45.998	Data
45	70.858	6.491	57.005	64.752	45.998	Data
45	70.726	6.537	57.001	64.751	45.998	Data
46.5	71.012	6.560	56.962	64.75	45.998	Data
46.5	70.681	6.512	56.960	64.75	45.998	Data
48	70.737	6.554	57.043	64.755	45.999	Data
48	71.266	6.564	57.044	64.757	46.000	Data
49	70.737	6.554	57.043	64.755	45.999	Data
49	71.266	6.564	57.044	64.757	46.000	Data
50	70.737	6.554	57.043	64.755	45.999	Data
50	71.266	6.564	57.044	64.757	46.000	Data
51	70.737	6.554	57.043	64.755	45.999	Data
51	71.266	6.564	57.044	64.757	46.000	Data
52.5	71.012	6.560	56.962	64.75	45.998	Data
52.5	70.681	6.512	56.960	64.75	45.998	Data
54	70.120	6.530	57.013	64.753	45.999	Data
54	69.978	6.476	57.015	64.755	45.999	Data
55	70.120	6.530	57.013	64.753	45.999	Data
55	69.978	6.476	57.015	64.755	45.999	Data
56	70.120	6.530	57.013	64.753	45.999	Data
56	69.978	6.476	57.015	64.755	45.999	Data

Vertical sweep VG at 64.5 (in), q=70 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	70.120	6.530	57.013	64.753	45.999	Data
57	69.978	6.476	57.015	64.755	45.999	Data
58.5	71.012	6.560	56.962	64.75	45.998	Data
58.5	70.681	6.512	56.960	64.75	45.998	Data
60.5	70.701	6.516	57.006	64.756	45.993	Data
60.5	70.770	6.477	57.005	64.756	45.993	Data
61.75	70.701	6.516	57.006	64.756	45.993	Data
61.75	70.770	6.477	57.005	64.756	45.993	Data
63	70.701	6.516	57.006	64.756	45.993	Data
63	70.770	6.477	57.005	64.756	45.993	Data
64	70.701	6.516	57.006	64.756	45.993	Data
64	70.770	6.477	57.005	64.756	45.993	Data

Table 371: Vertical sweep VG at 64.5 (in), q=70 RO-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=70 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.966	6.515	56.967	64.751	46.996	Data
8	70.634	6.591	56.962	64.749	46.995	Data
30	70.275	6.475	57.017	64.754	47.019	Data
30	70.533	6.555	57.014	64.756	47.019	Data
30	71.018	6.538	57.052	64.756	47.025	Data
30	71.312	6.551	57.000	64.758	46.964	Data
30	71.151	6.519	57.001	64.757	46.965	Data
30	71.200	6.493	57.049	64.758	47.025	Data
30	71.296	6.520	57.010	64.751	47.001	Data
30	70.966	6.515	56.967	64.751	46.996	Data
30	70.634	6.591	56.962	64.749	46.995	Data
30	71.036	6.467	57.001	64.752	47.000	Data
42	71.036	6.467	57.001	64.752	47.000	Data
42	71.296	6.520	57.010	64.751	47.001	Data
43	71.036	6.467	57.001	64.752	47.000	Data
43	71.296	6.520	57.010	64.751	47.001	Data
44	71.036	6.467	57.001	64.752	47.000	Data
44	71.296	6.520	57.010	64.751	47.001	Data
45	71.036	6.467	57.001	64.752	47.000	Data
45	71.296	6.520	57.010	64.751	47.001	Data
46.5	70.634	6.591	56.962	64.749	46.995	Data
46.5	70.966	6.515	56.967	64.751	46.996	Data
48	71.018	6.538	57.052	64.756	47.025	Data
48	71.200	6.493	57.049	64.758	47.025	Data
49	71.018	6.538	57.052	64.756	47.025	Data
49	71.200	6.493	57.049	64.758	47.025	Data

Vertical sweep VG at 64.5 (in), q=70 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	71.018	6.538	57.052	64.756	47.025	Data
50	71.200	6.493	57.049	64.758	47.025	Data
51	71.018	6.538	57.052	64.756	47.025	Data
51	71.200	6.493	57.049	64.758	47.025	Data
52.5	70.634	6.591	56.962	64.749	46.995	Data
52.5	70.966	6.515	56.967	64.751	46.996	Data
54	70.275	6.475	57.017	64.754	47.019	Data
54	70.533	6.555	57.014	64.756	47.019	Data
55	70.275	6.475	57.017	64.754	47.019	Data
55	70.533	6.555	57.014	64.756	47.019	Data
56	70.275	6.475	57.017	64.754	47.019	Data
56	70.533	6.555	57.014	64.756	47.019	Data
57	70.275	6.475	57.017	64.754	47.019	Data
57	70.533	6.555	57.014	64.756	47.019	Data
58.5	70.634	6.591	56.962	64.749	46.995	Data
58.5	70.966	6.515	56.967	64.751	46.996	Data
60.5	71.151	6.519	57.001	64.757	46.965	Data
60.5	71.312	6.551	57.000	64.758	46.964	Data
61.75	71.151	6.519	57.001	64.757	46.965	Data
61.75	71.312	6.551	57.000	64.758	46.964	Data
63	71.151	6.519	57.001	64.757	46.965	Data
63	71.312	6.551	57.000	64.758	46.964	Data
64	71.151	6.519	57.001	64.757	46.965	Data
64	71.312	6.551	57.000	64.758	46.964	Data

Table 372: Vertical sweep VG at 64.5 (in), q=70 RO-tip VG AoA 4 VG at span y=64.5 (in)

D.30. Vertical VG vortex sweep at y=46.5 (in), q=70, α_{VG}=8, α_W=7, RO-tip

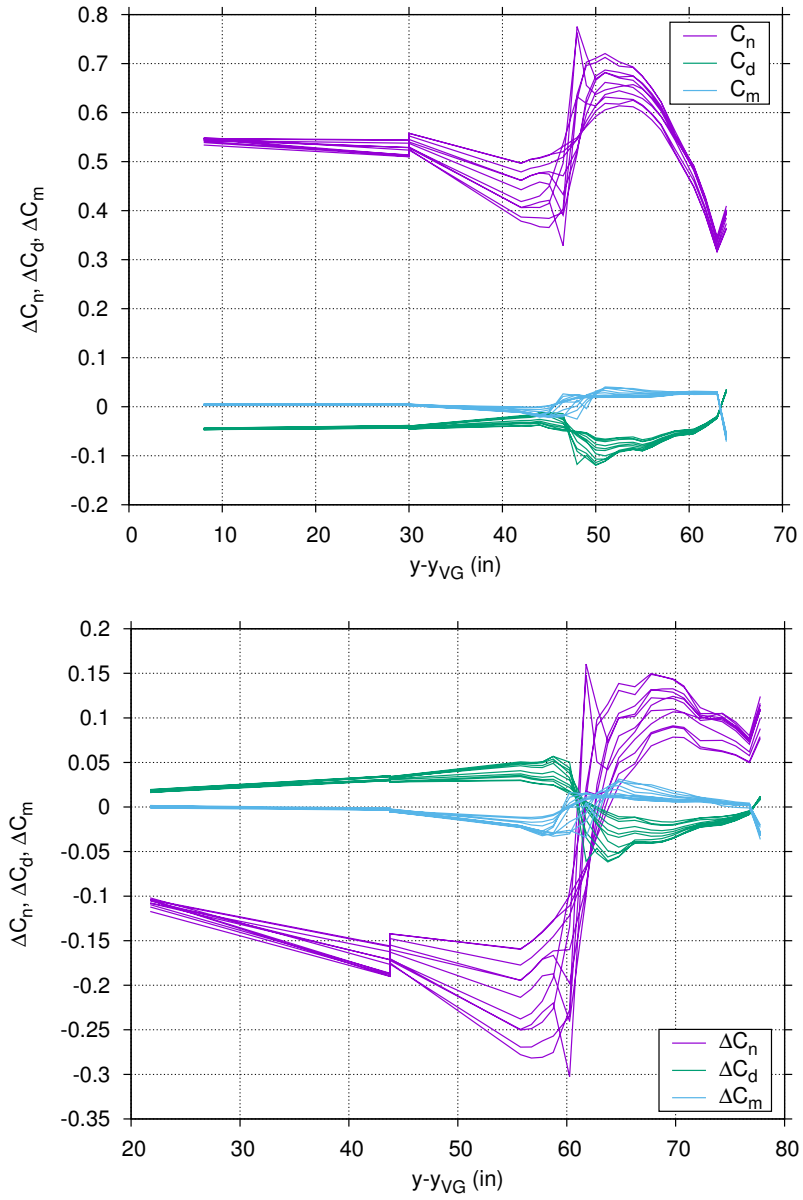

Figure 83. Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 (Data)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.093	6.506	57.011	46.746	42.001	Data
8	69.933	6.546	57.013	46.746	42.001	Data
30	69.767	6.560	57.054	46.73	42.010	Data
30	70.341	6.472	57.063	46.73	42.002	Data
30	70.171	6.540	56.997	46.749	41.997	Data
30	69.539	6.480	57.050	46.732	42.010	Data
30	70.930	6.518	57.069	46.73	42.002	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.933	6.546	57.013	46.746	42.001	Data
30	69.602	6.536	57.056	46.749	41.990	Data
30	69.093	6.506	57.011	46.746	42.001	Data
30	69.646	6.502	57.062	46.749	41.990	Data
30	69.745	6.508	56.992	46.749	41.998	Data
42	70.171	6.540	56.997	46.749	41.997	Data
42	69.745	6.508	56.992	46.749	41.998	Data
43	70.171	6.540	56.997	46.749	41.997	Data
43	69.745	6.508	56.992	46.749	41.998	Data
44	70.171	6.540	56.997	46.749	41.997	Data
44	69.745	6.508	56.992	46.749	41.998	Data
45	70.171	6.540	56.997	46.749	41.997	Data
45	69.745	6.508	56.992	46.749	41.998	Data
46.5	69.933	6.546	57.013	46.746	42.001	Data
46.5	69.093	6.506	57.011	46.746	42.001	Data
48	70.930	6.518	57.069	46.73	42.002	Data
48	70.341	6.472	57.063	46.73	42.002	Data
49	70.930	6.518	57.069	46.73	42.002	Data
49	70.341	6.472	57.063	46.73	42.002	Data
50	70.930	6.518	57.069	46.73	42.002	Data
50	70.341	6.472	57.063	46.73	42.002	Data
51	70.930	6.518	57.069	46.73	42.002	Data
51	70.341	6.472	57.063	46.73	42.002	Data
52.5	69.933	6.546	57.013	46.746	42.001	Data
52.5	69.093	6.506	57.011	46.746	42.001	Data
54	69.602	6.536	57.056	46.749	41.990	Data
54	69.646	6.502	57.062	46.749	41.990	Data
55	69.602	6.536	57.056	46.749	41.990	Data
55	69.646	6.502	57.062	46.749	41.990	Data
56	69.602	6.536	57.056	46.749	41.990	Data
56	69.646	6.502	57.062	46.749	41.990	Data
57	69.602	6.536	57.056	46.749	41.990	Data
57	69.646	6.502	57.062	46.749	41.990	Data
58.5	69.933	6.546	57.013	46.746	42.001	Data
58.5	69.093	6.506	57.011	46.746	42.001	Data
60.5	69.539	6.480	57.050	46.732	42.010	Data
60.5	69.767	6.560	57.054	46.73	42.010	Data
61.75	69.539	6.480	57.050	46.732	42.010	Data
61.75	69.767	6.560	57.054	46.73	42.010	Data
63	69.539	6.480	57.050	46.732	42.010	Data
63	69.767	6.560	57.054	46.73	42.010	Data
64	69.539	6.480	57.050	46.732	42.010	Data
64	69.767	6.560	57.054	46.73	42.010	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 373: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.134	6.491	57.026	46.732	42.489	Data
8	70.126	6.471	57.024	46.732	42.490	Data
30	68.958	6.546	57.043	46.739	42.443	Data
30	68.167	6.561	57.034	46.739	42.443	Data
30	70.134	6.491	57.026	46.732	42.489	Data
30	69.559	6.522	57.041	46.751	42.503	Data
30	69.138	6.544	57.013	46.743	42.492	Data
30	69.142	6.549	57.020	46.742	42.490	Data
30	68.402	6.463	57.055	46.747	42.502	Data
30	67.901	6.492	57.056	46.745	42.501	Data
30	70.126	6.471	57.024	46.732	42.490	Data
30	69.895	6.460	57.042	46.752	42.503	Data
42	69.138	6.544	57.013	46.743	42.492	Data
42	69.142	6.549	57.020	46.742	42.490	Data
43	69.138	6.544	57.013	46.743	42.492	Data
43	69.142	6.549	57.020	46.742	42.490	Data
44	69.138	6.544	57.013	46.743	42.492	Data
44	69.142	6.549	57.020	46.742	42.490	Data
45	69.138	6.544	57.013	46.743	42.492	Data
45	69.142	6.549	57.020	46.742	42.490	Data
46.5	70.134	6.491	57.026	46.732	42.489	Data
46.5	70.126	6.471	57.024	46.732	42.490	Data
48	68.958	6.546	57.043	46.739	42.443	Data
48	68.167	6.561	57.034	46.739	42.443	Data
49	68.958	6.546	57.043	46.739	42.443	Data
49	68.167	6.561	57.034	46.739	42.443	Data
50	68.958	6.546	57.043	46.739	42.443	Data
50	68.167	6.561	57.034	46.739	42.443	Data
51	68.958	6.546	57.043	46.739	42.443	Data
51	68.167	6.561	57.034	46.739	42.443	Data
52.5	70.134	6.491	57.026	46.732	42.489	Data
52.5	70.126	6.471	57.024	46.732	42.490	Data
54	69.559	6.522	57.041	46.751	42.503	Data
54	69.895	6.460	57.042	46.752	42.503	Data
55	69.559	6.522	57.041	46.751	42.503	Data
55	69.895	6.460	57.042	46.752	42.503	Data
56	69.559	6.522	57.041	46.751	42.503	Data
56	69.895	6.460	57.042	46.752	42.503	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	69.559	6.522	57.041	46.751	42.503	Data
57	69.895	6.460	57.042	46.752	42.503	Data
58.5	70.134	6.491	57.026	46.732	42.489	Data
58.5	70.126	6.471	57.024	46.732	42.490	Data
60.5	68.402	6.463	57.055	46.747	42.502	Data
60.5	67.901	6.492	57.056	46.745	42.501	Data
61.75	68.402	6.463	57.055	46.747	42.502	Data
61.75	67.901	6.492	57.056	46.745	42.501	Data
63	68.402	6.463	57.055	46.747	42.502	Data
63	67.901	6.492	57.056	46.745	42.501	Data
64	68.402	6.463	57.055	46.747	42.502	Data
64	67.901	6.492	57.056	46.745	42.501	Data

Table 374: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.954	6.524	57.011	46.747	43.009	Data
8	69.656	6.466	57.009	46.745	43.007	Data
30	69.224	6.455	57.049	46.731	42.988	Data
30	70.104	6.496	57.061	46.75	42.997	Data
30	70.041	6.471	57.001	46.748	42.999	Data
30	70.014	6.555	57.041	46.732	42.989	Data
30	69.748	6.511	56.997	46.748	42.997	Data
30	69.821	6.453	57.071	46.731	42.996	Data
30	69.656	6.466	57.009	46.745	43.007	Data
30	69.526	6.442	57.062	46.75	42.998	Data
30	69.954	6.524	57.011	46.747	43.009	Data
30	69.989	6.565	57.067	46.73	42.995	Data
42	70.041	6.471	57.001	46.748	42.999	Data
42	69.748	6.511	56.997	46.748	42.997	Data
43	70.041	6.471	57.001	46.748	42.999	Data
43	69.748	6.511	56.997	46.748	42.997	Data
44	70.041	6.471	57.001	46.748	42.999	Data
44	69.748	6.511	56.997	46.748	42.997	Data
45	70.041	6.471	57.001	46.748	42.999	Data
45	69.748	6.511	56.997	46.748	42.997	Data
46.5	69.656	6.466	57.009	46.745	43.007	Data
46.5	69.954	6.524	57.011	46.747	43.009	Data
48	69.821	6.453	57.071	46.731	42.996	Data
48	69.989	6.565	57.067	46.73	42.995	Data
49	69.821	6.453	57.071	46.731	42.996	Data
49	69.989	6.565	57.067	46.73	42.995	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	69.821	6.453	57.071	46.731	42.996	Data
50	69.989	6.565	57.067	46.73	42.995	Data
51	69.821	6.453	57.071	46.731	42.996	Data
51	69.989	6.565	57.067	46.73	42.995	Data
52.5	69.656	6.466	57.009	46.745	43.007	Data
52.5	69.954	6.524	57.011	46.747	43.009	Data
54	70.104	6.496	57.061	46.75	42.997	Data
54	69.526	6.442	57.062	46.75	42.998	Data
55	70.104	6.496	57.061	46.75	42.997	Data
55	69.526	6.442	57.062	46.75	42.998	Data
56	70.104	6.496	57.061	46.75	42.997	Data
56	69.526	6.442	57.062	46.75	42.998	Data
57	70.104	6.496	57.061	46.75	42.997	Data
57	69.526	6.442	57.062	46.75	42.998	Data
58.5	69.656	6.466	57.009	46.745	43.007	Data
58.5	69.954	6.524	57.011	46.747	43.009	Data
60.5	69.224	6.455	57.049	46.731	42.988	Data
60.5	70.014	6.555	57.041	46.732	42.989	Data
61.75	69.224	6.455	57.049	46.731	42.988	Data
61.75	70.014	6.555	57.041	46.732	42.989	Data
63	69.224	6.455	57.049	46.731	42.988	Data
63	70.014	6.555	57.041	46.732	42.989	Data
64	69.224	6.455	57.049	46.731	42.988	Data
64	70.014	6.555	57.041	46.732	42.989	Data

Table 375: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.651	6.495	57.016	46.745	43.982	Data
8	69.603	6.480	57.012	46.745	43.992	Data
30	70.417	6.531	57.069	46.729	43.986	Data
30	69.299	6.519	57.001	46.749	44.006	Data
30	69.139	6.513	57.003	46.748	44.006	Data
30	69.458	6.468	57.051	46.733	43.991	Data
30	69.651	6.495	57.016	46.745	43.982	Data
30	69.654	6.481	57.061	46.729	43.984	Data
30	69.813	6.453	57.055	46.732	43.990	Data
30	69.603	6.480	57.012	46.745	43.992	Data
30	69.534	6.530	57.060	46.749	43.998	Data
30	68.926	6.503	57.059	46.748	43.997	Data
42	69.299	6.519	57.001	46.749	44.006	Data
42	69.139	6.513	57.003	46.748	44.006	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	69.299	6.519	57.001	46.749	44.006	Data
43	69.139	6.513	57.003	46.748	44.006	Data
44	69.299	6.519	57.001	46.749	44.006	Data
44	69.139	6.513	57.003	46.748	44.006	Data
45	69.299	6.519	57.001	46.749	44.006	Data
45	69.139	6.513	57.003	46.748	44.006	Data
46.5	69.651	6.495	57.016	46.745	43.982	Data
46.5	69.603	6.480	57.012	46.745	43.992	Data
48	70.417	6.531	57.069	46.729	43.986	Data
48	69.654	6.481	57.061	46.729	43.984	Data
49	70.417	6.531	57.069	46.729	43.986	Data
49	69.654	6.481	57.061	46.729	43.984	Data
50	70.417	6.531	57.069	46.729	43.986	Data
50	69.654	6.481	57.061	46.729	43.984	Data
51	70.417	6.531	57.069	46.729	43.986	Data
51	69.654	6.481	57.061	46.729	43.984	Data
52.5	69.603	6.480	57.012	46.745	43.992	Data
52.5	69.651	6.495	57.016	46.745	43.982	Data
54	69.534	6.530	57.060	46.749	43.998	Data
54	68.926	6.503	57.059	46.748	43.997	Data
55	69.534	6.530	57.060	46.749	43.998	Data
55	68.926	6.503	57.059	46.748	43.997	Data
56	69.534	6.530	57.060	46.749	43.998	Data
56	68.926	6.503	57.059	46.748	43.997	Data
57	69.534	6.530	57.060	46.749	43.998	Data
57	68.926	6.503	57.059	46.748	43.997	Data
58.5	69.651	6.495	57.016	46.745	43.982	Data
58.5	69.603	6.480	57.012	46.745	43.992	Data
60.5	69.813	6.453	57.055	46.732	43.990	Data
60.5	69.458	6.468	57.051	46.733	43.991	Data
61.75	69.813	6.453	57.055	46.732	43.990	Data
61.75	69.458	6.468	57.051	46.733	43.991	Data
63	69.813	6.453	57.055	46.732	43.990	Data
63	69.458	6.468	57.051	46.733	43.991	Data
64	69.813	6.453	57.055	46.732	43.990	Data
64	69.458	6.468	57.051	46.733	43.991	Data

Table 376: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	67.836	6.507	57.017	46.734	44.492	Data
8	68.367	6.459	57.009	46.734	44.492	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.901	6.506	57.064	46.739	44.504	Data
30	67.836	6.507	57.017	46.734	44.492	Data
30	69.205	6.509	57.056	46.731	44.509	Data
30	69.086	6.528	57.020	46.734	44.497	Data
30	69.041	6.513	57.052	46.743	44.472	Data
30	68.817	6.520	57.047	46.743	44.472	Data
30	68.367	6.459	57.009	46.734	44.492	Data
30	69.600	6.505	57.059	46.729	44.508	Data
30	69.215	6.473	57.067	46.739	44.503	Data
30	69.440	6.574	57.013	46.735	44.497	Data
42	69.086	6.528	57.020	46.734	44.497	Data
42	69.440	6.574	57.013	46.735	44.497	Data
43	69.086	6.528	57.020	46.734	44.497	Data
43	69.440	6.574	57.013	46.735	44.497	Data
44	69.086	6.528	57.020	46.734	44.497	Data
44	69.440	6.574	57.013	46.735	44.497	Data
45	69.086	6.528	57.020	46.734	44.497	Data
45	69.440	6.574	57.013	46.735	44.497	Data
46.5	67.836	6.507	57.017	46.734	44.492	Data
46.5	68.367	6.459	57.009	46.734	44.492	Data
48	69.215	6.473	57.067	46.739	44.503	Data
48	69.901	6.506	57.064	46.739	44.504	Data
49	69.215	6.473	57.067	46.739	44.503	Data
49	69.901	6.506	57.064	46.739	44.504	Data
50	69.901	6.506	57.064	46.739	44.504	Data
50	69.215	6.473	57.067	46.739	44.503	Data
51	69.901	6.506	57.064	46.739	44.504	Data
51	69.215	6.473	57.067	46.739	44.503	Data
52.5	67.836	6.507	57.017	46.734	44.492	Data
52.5	68.367	6.459	57.009	46.734	44.492	Data
54	69.041	6.513	57.052	46.743	44.472	Data
54	68.817	6.520	57.047	46.743	44.472	Data
55	69.041	6.513	57.052	46.743	44.472	Data
55	68.817	6.520	57.047	46.743	44.472	Data
56	69.041	6.513	57.052	46.743	44.472	Data
56	68.817	6.520	57.047	46.743	44.472	Data
57	69.041	6.513	57.052	46.743	44.472	Data
57	68.817	6.520	57.047	46.743	44.472	Data
58.5	67.836	6.507	57.017	46.734	44.492	Data
58.5	68.367	6.459	57.009	46.734	44.492	Data
60.5	69.600	6.505	57.059	46.729	44.508	Data
60.5	69.205	6.509	57.056	46.731	44.509	Data
61.75	69.600	6.505	57.059	46.729	44.508	Data
61.75	69.205	6.509	57.056	46.731	44.509	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	69.600	6.505	57.059	46.729	44.508	Data
63	69.205	6.509	57.056	46.731	44.509	Data
64	69.600	6.505	57.059	46.729	44.508	Data
64	69.205	6.509	57.056	46.731	44.509	Data

Table 377: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.603	6.534	57.007	46.745	44.998	Data
8	69.952	6.457	57.013	46.746	44.991	Data
30	69.536	6.504	56.995	46.749	44.994	Data
30	69.586	6.493	57.064	46.729	44.993	Data
30	69.991	6.493	57.058	46.748	45.001	Data
30	69.603	6.534	57.007	46.745	44.998	Data
30	69.441	6.486	57.053	46.731	45.014	Data
30	69.516	6.513	57.058	46.749	45.002	Data
30	69.647	6.535	57.047	46.733	45.014	Data
30	70.281	6.496	57.067	46.731	44.993	Data
30	69.165	6.530	56.995	46.749	44.994	Data
30	69.952	6.457	57.013	46.746	44.991	Data
42	69.536	6.504	56.995	46.749	44.994	Data
42	69.165	6.530	56.995	46.749	44.994	Data
43	69.536	6.504	56.995	46.749	44.994	Data
43	69.165	6.530	56.995	46.749	44.994	Data
44	69.536	6.504	56.995	46.749	44.994	Data
44	69.165	6.530	56.995	46.749	44.994	Data
45	69.536	6.504	56.995	46.749	44.994	Data
45	69.165	6.530	56.995	46.749	44.994	Data
46.5	69.603	6.534	57.007	46.745	44.998	Data
46.5	69.952	6.457	57.013	46.746	44.991	Data
48	69.586	6.493	57.064	46.729	44.993	Data
48	70.281	6.496	57.067	46.731	44.993	Data
49	69.586	6.493	57.064	46.729	44.993	Data
49	70.281	6.496	57.067	46.731	44.993	Data
50	69.586	6.493	57.064	46.729	44.993	Data
50	70.281	6.496	57.067	46.731	44.993	Data
51	69.586	6.493	57.064	46.729	44.993	Data
51	70.281	6.496	57.067	46.731	44.993	Data
52.5	69.952	6.457	57.013	46.746	44.991	Data
52.5	69.603	6.534	57.007	46.745	44.998	Data
54	69.991	6.493	57.058	46.748	45.001	Data
54	69.516	6.513	57.058	46.749	45.002	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	69.991	6.493	57.058	46.748	45.001	Data
55	69.516	6.513	57.058	46.749	45.002	Data
56	69.991	6.493	57.058	46.748	45.001	Data
56	69.516	6.513	57.058	46.749	45.002	Data
57	69.991	6.493	57.058	46.748	45.001	Data
57	69.516	6.513	57.058	46.749	45.002	Data
58.5	69.952	6.457	57.013	46.746	44.991	Data
58.5	69.603	6.534	57.007	46.745	44.998	Data
60.5	69.647	6.535	57.047	46.733	45.014	Data
60.5	69.441	6.486	57.053	46.731	45.014	Data
61.75	69.647	6.535	57.047	46.733	45.014	Data
61.75	69.441	6.486	57.053	46.731	45.014	Data
63	69.647	6.535	57.047	46.733	45.014	Data
63	69.441	6.486	57.053	46.731	45.014	Data
64	69.441	6.486	57.053	46.731	45.014	Data
64	69.647	6.535	57.047	46.733	45.014	Data

Table 378: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.923	6.463	57.009	46.745	46.001	Data
8	69.522	6.543	57.010	46.745	45.994	Data
30	69.900	6.454	57.058	46.73	46.004	Data
30	69.992	6.520	57.054	46.733	45.988	Data
30	69.871	6.545	57.059	46.73	46.003	Data
30	69.459	6.543	57.049	46.732	45.986	Data
30	69.498	6.478	56.998	46.748	45.985	Data
30	69.578	6.526	56.997	46.749	45.987	Data
30	69.923	6.463	57.009	46.745	46.001	Data
30	69.522	6.543	57.010	46.745	45.994	Data
30	69.610	6.472	57.056	46.749	46.009	Data
30	69.580	6.516	57.053	46.749	46.009	Data
42	69.578	6.526	56.997	46.749	45.987	Data
42	69.498	6.478	56.998	46.748	45.985	Data
43	69.578	6.526	56.997	46.749	45.987	Data
43	69.498	6.478	56.998	46.748	45.985	Data
44	69.578	6.526	56.997	46.749	45.987	Data
44	69.498	6.478	56.998	46.748	45.985	Data
45	69.578	6.526	56.997	46.749	45.987	Data
45	69.498	6.478	56.998	46.748	45.985	Data
46.5	69.522	6.543	57.010	46.745	45.994	Data
46.5	69.923	6.463	57.009	46.745	46.001	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	69.871	6.545	57.059	46.73	46.003	Data
48	69.900	6.454	57.058	46.73	46.004	Data
49	69.871	6.545	57.059	46.73	46.003	Data
49	69.900	6.454	57.058	46.73	46.004	Data
50	69.871	6.545	57.059	46.73	46.003	Data
50	69.900	6.454	57.058	46.73	46.004	Data
51	69.871	6.545	57.059	46.73	46.003	Data
51	69.900	6.454	57.058	46.73	46.004	Data
52.5	69.522	6.543	57.010	46.745	45.994	Data
52.5	69.923	6.463	57.009	46.745	46.001	Data
54	69.610	6.472	57.056	46.749	46.009	Data
54	69.580	6.516	57.053	46.749	46.009	Data
55	69.610	6.472	57.056	46.749	46.009	Data
55	69.580	6.516	57.053	46.749	46.009	Data
56	69.610	6.472	57.056	46.749	46.009	Data
56	69.580	6.516	57.053	46.749	46.009	Data
57	69.610	6.472	57.056	46.749	46.009	Data
57	69.580	6.516	57.053	46.749	46.009	Data
58.5	69.522	6.543	57.010	46.745	45.994	Data
58.5	69.923	6.463	57.009	46.745	46.001	Data
60.5	69.992	6.520	57.054	46.733	45.988	Data
60.5	69.459	6.543	57.049	46.732	45.986	Data
61.75	69.992	6.520	57.054	46.733	45.988	Data
61.75	69.459	6.543	57.049	46.732	45.986	Data
63	69.992	6.520	57.054	46.733	45.988	Data
63	69.459	6.543	57.049	46.732	45.986	Data
64	69.992	6.520	57.054	46.733	45.988	Data
64	69.459	6.543	57.049	46.732	45.986	Data

Table 379: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.248	6.497	57.006	46.737	46.508	Data
8	70.547	6.530	57.010	46.736	46.508	Data
30	68.295	6.532	57.063	46.73	46.439	Data
30	69.444	6.511	57.014	46.737	46.483	Data
30	70.685	6.520	57.049	46.742	46.461	Data
30	68.094	6.463	57.072	46.73	46.437	Data
30	69.146	6.530	57.019	46.737	46.484	Data
30	69.364	6.515	57.050	46.735	46.505	Data
30	69.442	6.459	57.060	46.735	46.505	Data
30	70.072	6.470	57.057	46.74	46.460	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.248	6.497	57.006	46.737	46.508	Data
30	70.547	6.530	57.010	46.736	46.508	Data
42	69.444	6.511	57.014	46.737	46.483	Data
42	69.146	6.530	57.019	46.737	46.484	Data
43	69.444	6.511	57.014	46.737	46.483	Data
43	69.146	6.530	57.019	46.737	46.484	Data
44	69.444	6.511	57.014	46.737	46.483	Data
44	69.146	6.530	57.019	46.737	46.484	Data
45	69.444	6.511	57.014	46.737	46.483	Data
45	69.146	6.530	57.019	46.737	46.484	Data
46.5	70.248	6.497	57.006	46.737	46.508	Data
46.5	70.547	6.530	57.010	46.736	46.508	Data
48	68.295	6.532	57.063	46.73	46.439	Data
48	68.094	6.463	57.072	46.73	46.437	Data
49	68.295	6.532	57.063	46.73	46.439	Data
49	68.094	6.463	57.072	46.73	46.437	Data
50	68.094	6.463	57.072	46.73	46.437	Data
50	68.295	6.532	57.063	46.73	46.439	Data
51	68.295	6.532	57.063	46.73	46.439	Data
51	68.094	6.463	57.072	46.73	46.437	Data
52.5	70.248	6.497	57.006	46.737	46.508	Data
52.5	70.547	6.530	57.010	46.736	46.508	Data
54	70.685	6.520	57.049	46.742	46.461	Data
54	70.072	6.470	57.057	46.74	46.460	Data
55	70.685	6.520	57.049	46.742	46.461	Data
55	70.072	6.470	57.057	46.74	46.460	Data
56	70.685	6.520	57.049	46.742	46.461	Data
56	70.072	6.470	57.057	46.74	46.460	Data
57	70.685	6.520	57.049	46.742	46.461	Data
57	70.072	6.470	57.057	46.74	46.460	Data
58.5	70.248	6.497	57.006	46.737	46.508	Data
58.5	70.547	6.530	57.010	46.736	46.508	Data
60.5	69.364	6.515	57.050	46.735	46.505	Data
60.5	69.442	6.459	57.060	46.735	46.505	Data
61.75	69.364	6.515	57.050	46.735	46.505	Data
61.75	69.442	6.459	57.060	46.735	46.505	Data
63	69.364	6.515	57.050	46.735	46.505	Data
63	69.442	6.459	57.060	46.735	46.505	Data
64	69.442	6.459	57.060	46.735	46.505	Data
64	69.364	6.515	57.050	46.735	46.505	Data

Table 380: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.446	6.498	57.009	46.746	47.004	Data
8	69.338	6.463	57.017	46.745	46.996	Data
30	70.398	6.524	57.051	46.732	47.004	Data
30	69.972	6.507	57.055	46.732	47.007	Data
30	69.446	6.498	57.009	46.746	47.004	Data
30	69.285	6.507	57.062	46.73	47.009	Data
30	69.628	6.490	57.051	46.749	47.001	Data
30	69.338	6.463	57.017	46.745	46.996	Data
30	69.552	6.497	56.998	46.749	47.007	Data
30	69.613	6.513	57.049	46.748	46.995	Data
30	69.386	6.534	57.001	46.748	47.007	Data
30	69.561	6.477	57.065	46.73	47.007	Data
42	69.386	6.534	57.001	46.748	47.007	Data
42	69.552	6.497	56.998	46.749	47.007	Data
43	69.386	6.534	57.001	46.748	47.007	Data
43	69.552	6.497	56.998	46.749	47.007	Data
44	69.386	6.534	57.001	46.748	47.007	Data
44	69.552	6.497	56.998	46.749	47.007	Data
45	69.386	6.534	57.001	46.748	47.007	Data
45	69.552	6.497	56.998	46.749	47.007	Data
46.5	69.446	6.498	57.009	46.746	47.004	Data
46.5	69.338	6.463	57.017	46.745	46.996	Data
48	69.285	6.507	57.062	46.73	47.009	Data
48	69.561	6.477	57.065	46.73	47.007	Data
49	69.285	6.507	57.062	46.73	47.009	Data
49	69.561	6.477	57.065	46.73	47.007	Data
50	69.285	6.507	57.062	46.73	47.009	Data
50	69.561	6.477	57.065	46.73	47.007	Data
51	69.285	6.507	57.062	46.73	47.009	Data
51	69.561	6.477	57.065	46.73	47.007	Data
52.5	69.446	6.498	57.009	46.746	47.004	Data
52.5	69.338	6.463	57.017	46.745	46.996	Data
54	69.613	6.513	57.049	46.748	46.995	Data
54	69.628	6.490	57.051	46.749	47.001	Data
55	69.613	6.513	57.049	46.748	46.995	Data
55	69.628	6.490	57.051	46.749	47.001	Data
56	69.613	6.513	57.049	46.748	46.995	Data
56	69.628	6.490	57.051	46.749	47.001	Data
57	69.613	6.513	57.049	46.748	46.995	Data
57	69.628	6.490	57.051	46.749	47.001	Data
58.5	69.338	6.463	57.017	46.745	46.996	Data
58.5	69.446	6.498	57.009	46.746	47.004	Data
60.5	69.972	6.507	57.055	46.732	47.007	Data
60.5	70.398	6.524	57.051	46.732	47.004	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	70.398	6.524	57.051	46.732	47.004	Data
61.75	69.972	6.507	57.055	46.732	47.007	Data
63	70.398	6.524	57.051	46.732	47.004	Data
63	69.972	6.507	57.055	46.732	47.007	Data
64	69.972	6.507	57.055	46.732	47.007	Data
64	70.398	6.524	57.051	46.732	47.004	Data

Table 381: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.924	6.405	57.015	46.746	47.986	Data
8	69.278	6.497	57.011	46.743	47.998	Data
30	69.911	6.554	57.053	46.731	48.008	Data
30	69.796	6.419	57.062	46.727	47.989	Data
30	69.676	6.534	57.067	46.729	47.994	Data
30	69.119	6.498	57.051	46.732	48.005	Data
30	69.552	6.518	57.001	46.747	48.009	Data
30	69.410	6.501	57.000	46.749	48.010	Data
30	69.278	6.497	57.011	46.743	47.998	Data
30	68.924	6.405	57.015	46.746	47.986	Data
30	69.304	6.459	57.051	46.749	47.991	Data
30	68.797	6.471	57.055	46.749	47.991	Data
42	69.552	6.518	57.001	46.747	48.009	Data
42	69.410	6.501	57.000	46.749	48.010	Data
43	69.552	6.518	57.001	46.747	48.009	Data
43	69.410	6.501	57.000	46.749	48.010	Data
44	69.552	6.518	57.001	46.747	48.009	Data
44	69.410	6.501	57.000	46.749	48.010	Data
45	69.552	6.518	57.001	46.747	48.009	Data
45	69.410	6.501	57.000	46.749	48.010	Data
46.5	69.278	6.497	57.011	46.743	47.998	Data
46.5	68.924	6.405	57.015	46.746	47.986	Data
48	69.796	6.419	57.062	46.727	47.989	Data
48	69.676	6.534	57.067	46.729	47.994	Data
49	69.796	6.419	57.062	46.727	47.989	Data
49	69.676	6.534	57.067	46.729	47.994	Data
50	69.676	6.534	57.067	46.729	47.994	Data
50	69.796	6.419	57.062	46.727	47.989	Data
51	69.676	6.534	57.067	46.729	47.994	Data
51	69.796	6.419	57.062	46.727	47.989	Data
52.5	69.278	6.497	57.011	46.743	47.998	Data
52.5	68.924	6.405	57.015	46.746	47.986	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	69.304	6.459	57.051	46.749	47.991	Data
54	68.797	6.471	57.055	46.749	47.991	Data
55	69.304	6.459	57.051	46.749	47.991	Data
55	68.797	6.471	57.055	46.749	47.991	Data
56	69.304	6.459	57.051	46.749	47.991	Data
56	68.797	6.471	57.055	46.749	47.991	Data
57	69.304	6.459	57.051	46.749	47.991	Data
57	68.797	6.471	57.055	46.749	47.991	Data
58.5	69.278	6.497	57.011	46.743	47.998	Data
58.5	68.924	6.405	57.015	46.746	47.986	Data
60.5	69.119	6.498	57.051	46.732	48.005	Data
60.5	69.911	6.554	57.053	46.731	48.008	Data
61.75	69.119	6.498	57.051	46.732	48.005	Data
61.75	69.911	6.554	57.053	46.731	48.008	Data
63	69.119	6.498	57.051	46.732	48.005	Data
63	69.911	6.554	57.053	46.731	48.008	Data
64	69.119	6.498	57.051	46.732	48.005	Data
64	69.911	6.554	57.053	46.731	48.008	Data

Table 382: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.691	6.475	57.009	46.745	48.997	Data
8	69.669	6.535	57.010	46.744	48.997	Data
30	68.441	6.522	57.011	46.748	49.000	Data
30	69.350	6.523	57.056	46.748	49.007	Data
30	69.184	6.482	57.062	46.729	49.011	Data
30	68.817	6.483	57.053	46.748	49.006	Data
30	69.501	6.453	57.062	46.73	49.005	Data
30	70.156	6.520	57.059	46.732	49.006	Data
30	69.667	6.487	57.015	46.749	48.991	Data
30	68.691	6.475	57.009	46.745	48.997	Data
30	69.669	6.535	57.010	46.744	48.997	Data
30	69.647	6.514	57.055	46.732	49.005	Data
42	68.441	6.522	57.011	46.748	49.000	Data
42	69.667	6.487	57.015	46.749	48.991	Data
43	68.441	6.522	57.011	46.748	49.000	Data
43	69.667	6.487	57.015	46.749	48.991	Data
44	68.441	6.522	57.011	46.748	49.000	Data
44	69.667	6.487	57.015	46.749	48.991	Data
45	68.441	6.522	57.011	46.748	49.000	Data
45	69.667	6.487	57.015	46.749	48.991	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	68.691	6.475	57.009	46.745	48.997	Data
46.5	69.669	6.535	57.010	46.744	48.997	Data
48	69.184	6.482	57.062	46.729	49.011	Data
48	69.501	6.453	57.062	46.73	49.005	Data
49	69.184	6.482	57.062	46.729	49.011	Data
49	69.501	6.453	57.062	46.73	49.005	Data
50	69.184	6.482	57.062	46.729	49.011	Data
50	69.501	6.453	57.062	46.73	49.005	Data
51	69.184	6.482	57.062	46.729	49.011	Data
51	69.501	6.453	57.062	46.73	49.005	Data
52.5	68.691	6.475	57.009	46.745	48.997	Data
52.5	69.669	6.535	57.010	46.744	48.997	Data
54	68.817	6.483	57.053	46.748	49.006	Data
54	69.350	6.523	57.056	46.748	49.007	Data
55	68.817	6.483	57.053	46.748	49.006	Data
55	69.350	6.523	57.056	46.748	49.007	Data
56	68.817	6.483	57.053	46.748	49.006	Data
56	69.350	6.523	57.056	46.748	49.007	Data
57	68.817	6.483	57.053	46.748	49.006	Data
57	69.350	6.523	57.056	46.748	49.007	Data
58.5	68.691	6.475	57.009	46.745	48.997	Data
58.5	69.669	6.535	57.010	46.744	48.997	Data
60.5	69.647	6.514	57.055	46.732	49.005	Data
60.5	70.156	6.520	57.059	46.732	49.006	Data
61.75	69.647	6.514	57.055	46.732	49.005	Data
61.75	70.156	6.520	57.059	46.732	49.006	Data
63	69.647	6.514	57.055	46.732	49.005	Data
63	70.156	6.520	57.059	46.732	49.006	Data
64	70.156	6.520	57.059	46.732	49.006	Data
64	69.647	6.514	57.055	46.732	49.005	Data

Table 383: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 VG at span y=46.5 (in)

D.31. Vertical VG vortex sweep at y=46.5 (in), q=70, α_{VG}=8, α_W=11, RO-tip

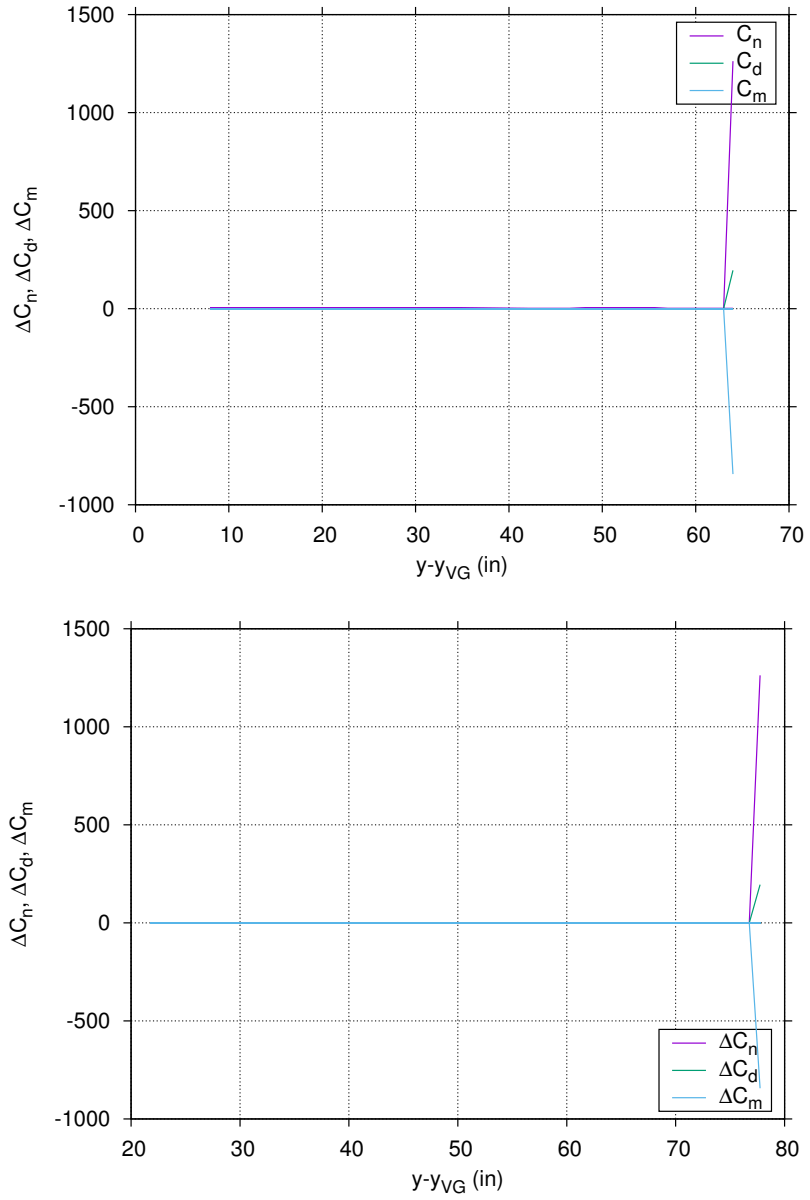

Figure 84. Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 (Data)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	68.970	10.507	45.870	46.751	42.519	Data
8	69.040	10.579	45.866	46.751	42.520	Data
30	69.040	10.579	45.866	46.751	42.520	Data
30	67.661	10.532	45.963	46.743	42.493	Data
30	70.100	10.530	45.931	46.742	42.501	Data
30	69.480	10.570	46.040	46.746	42.513	Data
30	70.310	10.541	45.948	46.741	42.501	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.547	10.534	46.056	46.744	42.513	Data
30	69.570	10.554	46.039	46.745	42.514	Data
30	68.970	10.507	45.870	46.751	42.519	Data
30	69.024	10.584	46.052	46.742	42.514	Data
30	67.681	10.605	45.962	46.745	42.492	Data
42	70.100	10.530	45.931	46.742	42.501	Data
42	70.310	10.541	45.948	46.741	42.501	Data
43	70.100	10.530	45.931	46.742	42.501	Data
43	70.310	10.541	45.948	46.741	42.501	Data
44	70.100	10.530	45.931	46.742	42.501	Data
44	70.310	10.541	45.948	46.741	42.501	Data
45	70.100	10.530	45.931	46.742	42.501	Data
45	70.310	10.541	45.948	46.741	42.501	Data
46.5	69.040	10.579	45.866	46.751	42.520	Data
46.5	68.970	10.507	45.870	46.751	42.519	Data
48	67.661	10.532	45.963	46.743	42.493	Data
48	67.681	10.605	45.962	46.745	42.492	Data
49	67.661	10.532	45.963	46.743	42.493	Data
49	67.681	10.605	45.962	46.745	42.492	Data
50	67.661	10.532	45.963	46.743	42.493	Data
50	67.681	10.605	45.962	46.745	42.492	Data
51	67.661	10.532	45.963	46.743	42.493	Data
51	67.681	10.605	45.962	46.745	42.492	Data
52.5	69.040	10.579	45.866	46.751	42.520	Data
52.5	68.970	10.507	45.870	46.751	42.519	Data
54	69.570	10.554	46.039	46.745	42.514	Data
54	69.480	10.570	46.040	46.746	42.513	Data
55	69.570	10.554	46.039	46.745	42.514	Data
55	69.480	10.570	46.040	46.746	42.513	Data
56	69.570	10.554	46.039	46.745	42.514	Data
56	69.480	10.570	46.040	46.746	42.513	Data
57	69.570	10.554	46.039	46.745	42.514	Data
57	69.480	10.570	46.040	46.746	42.513	Data
58.5	69.040	10.579	45.866	46.751	42.520	Data
58.5	68.970	10.507	45.870	46.751	42.519	Data
60.5	69.024	10.584	46.052	46.742	42.514	Data
60.5	68.547	10.534	46.056	46.744	42.513	Data
61.75	69.024	10.584	46.052	46.742	42.514	Data
61.75	68.547	10.534	46.056	46.744	42.513	Data
63	69.024	10.584	46.052	46.742	42.514	Data
63	68.547	10.534	46.056	46.744	42.513	Data
64	69.024	10.584	46.052	46.742	42.514	Data
64	68.547	10.534	46.056	46.744	42.513	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 384: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.761	10.553	45.867	46.749	44.517	Data
8	69.782	10.506	45.858	46.749	44.517	Data
30	67.930	10.579	45.945	46.743	44.492	Data
30	70.395	10.533	46.057	46.745	44.499	Data
30	69.738	10.530	45.952	46.742	44.459	Data
30	70.091	10.490	46.056	46.744	44.499	Data
30	69.241	10.534	45.945	46.741	44.458	Data
30	68.677	10.527	46.038	46.742	44.500	Data
30	67.976	10.561	46.040	46.742	44.500	Data
30	67.727	10.494	45.946	46.743	44.492	Data
30	69.761	10.553	45.867	46.749	44.517	Data
30	69.782	10.506	45.858	46.749	44.517	Data
42	67.727	10.494	45.946	46.743	44.492	Data
42	67.930	10.579	45.945	46.743	44.492	Data
43	67.727	10.494	45.946	46.743	44.492	Data
43	67.930	10.579	45.945	46.743	44.492	Data
44	67.727	10.494	45.946	46.743	44.492	Data
44	67.930	10.579	45.945	46.743	44.492	Data
45	67.727	10.494	45.946	46.743	44.492	Data
45	67.930	10.579	45.945	46.743	44.492	Data
46.5	69.761	10.553	45.867	46.749	44.517	Data
46.5	69.782	10.506	45.858	46.749	44.517	Data
48	69.241	10.534	45.945	46.741	44.458	Data
48	69.738	10.530	45.952	46.742	44.459	Data
49	69.241	10.534	45.945	46.741	44.458	Data
49	69.738	10.530	45.952	46.742	44.459	Data
50	69.241	10.534	45.945	46.741	44.458	Data
50	69.738	10.530	45.952	46.742	44.459	Data
51	69.241	10.534	45.945	46.741	44.458	Data
51	69.738	10.530	45.952	46.742	44.459	Data
52.5	69.782	10.506	45.858	46.749	44.517	Data
52.5	69.761	10.553	45.867	46.749	44.517	Data
54	68.677	10.527	46.038	46.742	44.500	Data
54	67.976	10.561	46.040	46.742	44.500	Data
55	68.677	10.527	46.038	46.742	44.500	Data
55	67.976	10.561	46.040	46.742	44.500	Data
56	68.677	10.527	46.038	46.742	44.500	Data
56	67.976	10.561	46.040	46.742	44.500	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	68.677	10.527	46.038	46.742	44.500	Data
57	67.976	10.561	46.040	46.742	44.500	Data
58.5	69.782	10.506	45.858	46.749	44.517	Data
58.5	69.761	10.553	45.867	46.749	44.517	Data
60.5	70.091	10.490	46.056	46.744	44.499	Data
60.5	70.395	10.533	46.057	46.745	44.499	Data
61.75	70.091	10.490	46.056	46.744	44.499	Data
61.75	70.395	10.533	46.057	46.745	44.499	Data
63	70.091	10.490	46.056	46.744	44.499	Data
63	70.395	10.533	46.057	46.745	44.499	Data
64	70.091	10.490	46.056	46.744	44.499	Data
64	70.395	10.533	46.057	46.745	44.499	Data

Table 385: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.288	10.523	45.874	46.743	45.007	Data
8	68.415	10.538	45.862	46.741	45.006	Data
30	69.288	10.523	45.874	46.743	45.007	Data
30	69.222	10.601	45.953	46.743	44.985	Data
30	69.865	10.573	46.042	46.742	45.011	Data
30	69.550	10.554	45.946	46.742	44.991	Data
30	69.643	10.530	46.061	46.739	44.988	Data
30	68.961	10.556	45.953	46.741	44.985	Data
30	69.400	10.552	45.942	46.742	44.991	Data
30	69.367	10.537	46.036	46.742	45.011	Data
30	69.875	10.592	46.056	46.738	44.993	Data
30	68.415	10.538	45.862	46.741	45.006	Data
42	69.550	10.554	45.946	46.742	44.991	Data
42	69.400	10.552	45.942	46.742	44.991	Data
43	69.550	10.554	45.946	46.742	44.991	Data
43	69.400	10.552	45.942	46.742	44.991	Data
44	69.550	10.554	45.946	46.742	44.991	Data
44	69.400	10.552	45.942	46.742	44.991	Data
45	69.550	10.554	45.946	46.742	44.991	Data
45	69.400	10.552	45.942	46.742	44.991	Data
46.5	69.288	10.523	45.874	46.743	45.007	Data
46.5	68.415	10.538	45.862	46.741	45.006	Data
48	68.961	10.556	45.953	46.741	44.985	Data
48	69.222	10.601	45.953	46.743	44.985	Data
49	68.961	10.556	45.953	46.741	44.985	Data
49	69.222	10.601	45.953	46.743	44.985	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	68.961	10.556	45.953	46.741	44.985	Data
50	69.222	10.601	45.953	46.743	44.985	Data
51	68.961	10.556	45.953	46.741	44.985	Data
51	69.222	10.601	45.953	46.743	44.985	Data
52.5	69.288	10.523	45.874	46.743	45.007	Data
52.5	68.415	10.538	45.862	46.741	45.006	Data
54	69.865	10.573	46.042	46.742	45.011	Data
54	69.367	10.537	46.036	46.742	45.011	Data
55	69.865	10.573	46.042	46.742	45.011	Data
55	69.367	10.537	46.036	46.742	45.011	Data
56	69.865	10.573	46.042	46.742	45.011	Data
56	69.367	10.537	46.036	46.742	45.011	Data
57	69.865	10.573	46.042	46.742	45.011	Data
57	69.367	10.537	46.036	46.742	45.011	Data
58.5	69.288	10.523	45.874	46.743	45.007	Data
58.5	68.415	10.538	45.862	46.741	45.006	Data
60.5	69.643	10.530	46.061	46.739	44.988	Data
60.5	69.875	10.592	46.056	46.738	44.993	Data
61.75	69.643	10.530	46.061	46.739	44.988	Data
61.75	69.875	10.592	46.056	46.738	44.993	Data
63	69.643	10.530	46.061	46.739	44.988	Data
63	69.875	10.592	46.056	46.738	44.993	Data
64	69.643	10.530	46.061	46.739	44.988	Data
64	69.875	10.592	46.056	46.738	44.993	Data

Table 386: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.960	10.538	45.866	46.743	45.512	Data
8	68.872	10.590	45.863	46.744	45.512	Data
30	68.872	10.590	45.863	46.744	45.512	Data
30	69.960	10.538	45.866	46.743	45.512	Data
30	69.855	10.511	46.041	46.743	45.489	Data
30	70.248	10.504	46.063	46.74	45.498	Data
30	70.298	10.609	46.064	46.739	45.499	Data
30	69.710	10.556	45.939	46.742	45.496	Data
30	69.981	10.570	45.942	46.743	45.507	Data
30	70.039	10.559	45.944	46.743	45.497	Data
30	70.299	10.443	46.047	46.742	45.498	Data
30	69.234	10.559	45.952	46.743	45.507	Data
42	69.710	10.556	45.939	46.742	45.496	Data
42	70.039	10.559	45.944	46.743	45.497	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	69.710	10.556	45.939	46.742	45.496	Data
43	70.039	10.559	45.944	46.743	45.497	Data
44	69.710	10.556	45.939	46.742	45.496	Data
44	70.039	10.559	45.944	46.743	45.497	Data
45	69.710	10.556	45.939	46.742	45.496	Data
45	70.039	10.559	45.944	46.743	45.497	Data
46.5	68.872	10.590	45.863	46.744	45.512	Data
46.5	69.960	10.538	45.866	46.743	45.512	Data
48	69.234	10.559	45.952	46.743	45.507	Data
48	69.981	10.570	45.942	46.743	45.507	Data
49	69.234	10.559	45.952	46.743	45.507	Data
49	69.981	10.570	45.942	46.743	45.507	Data
50	69.234	10.559	45.952	46.743	45.507	Data
50	69.981	10.570	45.942	46.743	45.507	Data
51	69.234	10.559	45.952	46.743	45.507	Data
51	69.981	10.570	45.942	46.743	45.507	Data
52.5	69.960	10.538	45.866	46.743	45.512	Data
52.5	68.872	10.590	45.863	46.744	45.512	Data
54	69.855	10.511	46.041	46.743	45.489	Data
54	70.299	10.443	46.047	46.742	45.498	Data
55	69.855	10.511	46.041	46.743	45.489	Data
55	70.299	10.443	46.047	46.742	45.498	Data
56	69.855	10.511	46.041	46.743	45.489	Data
56	70.299	10.443	46.047	46.742	45.498	Data
57	69.855	10.511	46.041	46.743	45.489	Data
57	70.299	10.443	46.047	46.742	45.498	Data
58.5	68.872	10.590	45.863	46.744	45.512	Data
58.5	69.960	10.538	45.866	46.743	45.512	Data
60.5	70.298	10.609	46.064	46.739	45.499	Data
60.5	70.248	10.504	46.063	46.74	45.498	Data
61.75	70.298	10.609	46.064	46.739	45.499	Data
61.75	70.248	10.504	46.063	46.74	45.498	Data
63	70.248	10.504	46.063	46.74	45.498	Data
63	70.298	10.609	46.064	46.739	45.499	Data
64	70.298	10.609	46.064	46.739	45.499	Data
64	70.248	10.504	46.063	46.74	45.498	Data

Table 387: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.400	10.502	45.864	46.742	46.007	Data
8	69.157	10.541	45.869	46.742	46.011	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.400	10.502	45.864	46.742	46.007	Data
30	69.978	10.541	46.052	46.74	45.998	Data
30	69.664	10.530	45.946	46.742	46.010	Data
30	70.641	10.565	46.062	46.74	45.998	Data
30	69.602	10.552	45.942	46.741	45.990	Data
30	69.578	10.530	46.029	46.743	46.000	Data
30	69.157	10.541	45.869	46.742	46.011	Data
30	69.468	10.549	45.938	46.741	45.991	Data
30	70.096	10.548	46.019	46.742	46.000	Data
30	69.961	10.562	45.943	46.742	46.006	Data
42	69.664	10.530	45.946	46.742	46.010	Data
42	69.961	10.562	45.943	46.742	46.006	Data
43	69.664	10.530	45.946	46.742	46.010	Data
43	69.961	10.562	45.943	46.742	46.006	Data
44	69.664	10.530	45.946	46.742	46.010	Data
44	69.961	10.562	45.943	46.742	46.006	Data
45	69.664	10.530	45.946	46.742	46.010	Data
45	69.961	10.562	45.943	46.742	46.006	Data
46.5	69.157	10.541	45.869	46.742	46.011	Data
46.5	69.400	10.502	45.864	46.742	46.007	Data
48	69.602	10.552	45.942	46.741	45.990	Data
48	69.468	10.549	45.938	46.741	45.991	Data
49	69.602	10.552	45.942	46.741	45.990	Data
49	69.468	10.549	45.938	46.741	45.991	Data
50	69.602	10.552	45.942	46.741	45.990	Data
50	69.468	10.549	45.938	46.741	45.991	Data
51	69.602	10.552	45.942	46.741	45.990	Data
51	69.468	10.549	45.938	46.741	45.991	Data
52.5	69.400	10.502	45.864	46.742	46.007	Data
52.5	69.157	10.541	45.869	46.742	46.011	Data
54	69.578	10.530	46.029	46.743	46.000	Data
54	70.096	10.548	46.019	46.742	46.000	Data
55	69.578	10.530	46.029	46.743	46.000	Data
55	70.096	10.548	46.019	46.742	46.000	Data
56	69.578	10.530	46.029	46.743	46.000	Data
56	70.096	10.548	46.019	46.742	46.000	Data
57	69.578	10.530	46.029	46.743	46.000	Data
57	70.096	10.548	46.019	46.742	46.000	Data
58.5	69.157	10.541	45.869	46.742	46.011	Data
58.5	69.400	10.502	45.864	46.742	46.007	Data
60.5	69.978	10.541	46.052	46.74	45.998	Data
60.5	70.641	10.565	46.062	46.74	45.998	Data
61.75	69.978	10.541	46.052	46.74	45.998	Data
61.75	70.641	10.565	46.062	46.74	45.998	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	69.978	10.541	46.052	46.74	45.998	Data
63	70.641	10.565	46.062	46.74	45.998	Data
64	69.978	10.541	46.052	46.74	45.998	Data
64	70.641	10.565	46.062	46.74	45.998	Data

Table 388: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.248	10.572	45.875	46.746	46.532	Data
8	68.729	10.510	45.874	46.745	46.532	Data
30	69.272	10.459	46.048	46.746	46.497	Data
30	68.387	10.561	45.953	46.745	46.495	Data
30	69.374	10.488	46.036	46.741	46.494	Data
30	68.729	10.510	45.874	46.745	46.532	Data
30	69.987	10.516	45.952	46.747	46.502	Data
30	69.248	10.572	45.875	46.746	46.532	Data
30	68.496	10.601	45.955	46.745	46.495	Data
30	69.237	10.508	46.040	46.74	46.495	Data
30	68.973	10.546	46.047	46.746	46.497	Data
30	69.394	10.570	45.949	46.747	46.502	Data
42	69.987	10.516	45.952	46.747	46.502	Data
42	69.394	10.570	45.949	46.747	46.502	Data
43	69.987	10.516	45.952	46.747	46.502	Data
43	69.394	10.570	45.949	46.747	46.502	Data
44	69.987	10.516	45.952	46.747	46.502	Data
44	69.394	10.570	45.949	46.747	46.502	Data
45	69.987	10.516	45.952	46.747	46.502	Data
45	69.394	10.570	45.949	46.747	46.502	Data
46.5	68.729	10.510	45.874	46.745	46.532	Data
46.5	69.248	10.572	45.875	46.746	46.532	Data
48	68.496	10.601	45.955	46.745	46.495	Data
48	68.387	10.561	45.953	46.745	46.495	Data
49	68.387	10.561	45.953	46.745	46.495	Data
49	68.496	10.601	45.955	46.745	46.495	Data
50	68.387	10.561	45.953	46.745	46.495	Data
50	68.496	10.601	45.955	46.745	46.495	Data
51	68.496	10.601	45.955	46.745	46.495	Data
51	68.387	10.561	45.953	46.745	46.495	Data
52.5	68.729	10.510	45.874	46.745	46.532	Data
52.5	69.248	10.572	45.875	46.746	46.532	Data
54	69.374	10.488	46.036	46.741	46.494	Data
54	69.237	10.508	46.040	46.74	46.495	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	69.374	10.488	46.036	46.741	46.494	Data
55	69.237	10.508	46.040	46.74	46.495	Data
56	69.374	10.488	46.036	46.741	46.494	Data
56	69.237	10.508	46.040	46.74	46.495	Data
57	69.374	10.488	46.036	46.741	46.494	Data
57	69.237	10.508	46.040	46.74	46.495	Data
58.5	68.729	10.510	45.874	46.745	46.532	Data
58.5	69.248	10.572	45.875	46.746	46.532	Data
60.5	69.272	10.459	46.048	46.746	46.497	Data
60.5	68.973	10.546	46.047	46.746	46.497	Data
61.75	69.272	10.459	46.048	46.746	46.497	Data
61.75	68.973	10.546	46.047	46.746	46.497	Data
63	69.272	10.459	46.048	46.746	46.497	Data
63	68.973	10.546	46.047	46.746	46.497	Data
64	69.272	10.459	46.048	46.746	46.497	Data
64	68.973	10.546	46.047	46.746	46.497	Data

Table 389: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.978	10.518	45.863	46.742	46.999	Data
8	69.602	10.514	45.869	46.742	46.998	Data
30	69.978	10.518	45.863	46.742	46.999	Data
30	69.379	10.509	46.014	46.743	46.991	Data
30	70.273	10.516	46.052	46.739	46.994	Data
30	69.269	10.542	45.947	46.742	47.007	Data
30	69.810	10.529	45.944	46.741	46.986	Data
30	69.407	10.621	45.944	46.742	46.979	Data
30	70.038	10.526	46.056	46.739	46.994	Data
30	69.729	10.551	46.010	46.744	46.991	Data
30	69.496	10.565	45.935	46.743	47.006	Data
30	69.602	10.514	45.869	46.742	46.998	Data
42	69.407	10.621	45.944	46.742	46.979	Data
42	69.810	10.529	45.944	46.741	46.986	Data
43	69.407	10.621	45.944	46.742	46.979	Data
43	69.810	10.529	45.944	46.741	46.986	Data
44	69.407	10.621	45.944	46.742	46.979	Data
44	69.810	10.529	45.944	46.741	46.986	Data
45	69.407	10.621	45.944	46.742	46.979	Data
45	69.810	10.529	45.944	46.741	46.986	Data
46.5	69.978	10.518	45.863	46.742	46.999	Data
46.5	69.602	10.514	45.869	46.742	46.998	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	69.269	10.542	45.947	46.742	47.007	Data
48	69.496	10.565	45.935	46.743	47.006	Data
49	69.269	10.542	45.947	46.742	47.007	Data
49	69.496	10.565	45.935	46.743	47.006	Data
50	69.496	10.565	45.935	46.743	47.006	Data
50	69.269	10.542	45.947	46.742	47.007	Data
51	69.496	10.565	45.935	46.743	47.006	Data
51	69.269	10.542	45.947	46.742	47.007	Data
52.5	69.978	10.518	45.863	46.742	46.999	Data
52.5	69.602	10.514	45.869	46.742	46.998	Data
54	69.729	10.551	46.010	46.744	46.991	Data
54	69.379	10.509	46.014	46.743	46.991	Data
55	69.729	10.551	46.010	46.744	46.991	Data
55	69.379	10.509	46.014	46.743	46.991	Data
56	69.729	10.551	46.010	46.744	46.991	Data
56	69.379	10.509	46.014	46.743	46.991	Data
57	69.729	10.551	46.010	46.744	46.991	Data
57	69.379	10.509	46.014	46.743	46.991	Data
58.5	69.978	10.518	45.863	46.742	46.999	Data
58.5	69.602	10.514	45.869	46.742	46.998	Data
60.5	70.273	10.516	46.052	46.739	46.994	Data
60.5	70.038	10.526	46.056	46.739	46.994	Data
61.75	70.273	10.516	46.052	46.739	46.994	Data
61.75	70.038	10.526	46.056	46.739	46.994	Data
63	70.273	10.516	46.052	46.739	46.994	Data
63	70.038	10.526	46.056	46.739	46.994	Data
64	70.038	10.526	46.056	46.739	46.994	Data
64	70.273	10.516	46.052	46.739	46.994	Data

Table 390: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.822	10.542	45.860	46.742	47.490	Data
8	69.273	10.509	45.868	46.742	47.495	Data
30	69.668	10.524	45.995	46.742	47.506	Data
30	70.474	10.556	46.058	46.738	47.506	Data
30	70.007	10.532	45.944	46.742	47.495	Data
30	69.077	10.566	45.949	46.742	47.488	Data
30	69.302	10.580	46.009	46.742	47.510	Data
30	69.523	10.547	45.942	46.742	47.488	Data
30	69.273	10.509	45.868	46.742	47.495	Data
30	69.822	10.542	45.860	46.742	47.490	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.570	10.536	46.064	46.739	47.506	Data
30	69.516	10.461	45.941	46.742	47.495	Data
42	70.007	10.532	45.944	46.742	47.495	Data
42	69.516	10.461	45.941	46.742	47.495	Data
43	69.516	10.461	45.941	46.742	47.495	Data
43	70.007	10.532	45.944	46.742	47.495	Data
44	69.516	10.461	45.941	46.742	47.495	Data
44	70.007	10.532	45.944	46.742	47.495	Data
45	69.516	10.461	45.941	46.742	47.495	Data
45	70.007	10.532	45.944	46.742	47.495	Data
46.5	69.822	10.542	45.860	46.742	47.490	Data
46.5	69.273	10.509	45.868	46.742	47.495	Data
48	69.077	10.566	45.949	46.742	47.488	Data
48	69.523	10.547	45.942	46.742	47.488	Data
49	69.523	10.547	45.942	46.742	47.488	Data
49	69.077	10.566	45.949	46.742	47.488	Data
50	69.077	10.566	45.949	46.742	47.488	Data
50	69.523	10.547	45.942	46.742	47.488	Data
51	69.077	10.566	45.949	46.742	47.488	Data
51	69.523	10.547	45.942	46.742	47.488	Data
52.5	69.822	10.542	45.860	46.742	47.490	Data
52.5	69.273	10.509	45.868	46.742	47.495	Data
54	69.668	10.524	45.995	46.742	47.506	Data
54	69.302	10.580	46.009	46.742	47.510	Data
55	69.668	10.524	45.995	46.742	47.506	Data
55	69.302	10.580	46.009	46.742	47.510	Data
56	69.668	10.524	45.995	46.742	47.506	Data
56	69.302	10.580	46.009	46.742	47.510	Data
57	69.668	10.524	45.995	46.742	47.506	Data
57	69.302	10.580	46.009	46.742	47.510	Data
58.5	69.822	10.542	45.860	46.742	47.490	Data
58.5	69.273	10.509	45.868	46.742	47.495	Data
60.5	70.570	10.536	46.064	46.739	47.506	Data
60.5	70.474	10.556	46.058	46.738	47.506	Data
61.75	70.570	10.536	46.064	46.739	47.506	Data
61.75	70.474	10.556	46.058	46.738	47.506	Data
63	70.570	10.536	46.064	46.739	47.506	Data
63	70.474	10.556	46.058	46.738	47.506	Data
64	70.570	10.536	46.064	46.739	47.506	Data
64	70.474	10.556	46.058	46.738	47.506	Data

Table 391: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.957	10.535	45.861	46.742	47.984	Data
8	70.189	10.522	45.870	46.742	47.971	Data
30	69.396	10.520	46.028	46.742	48.009	Data
30	69.616	10.544	45.942	46.742	48.001	Data
30	70.189	10.522	45.870	46.742	47.971	Data
30	70.493	10.510	46.054	46.738	48.012	Data
30	70.122	10.573	45.945	46.741	48.001	Data
30	69.783	10.458	46.015	46.742	48.009	Data
30	70.243	10.525	46.062	46.739	48.012	Data
30	68.959	10.527	45.945	46.742	48.008	Data
30	69.207	10.594	45.945	46.742	48.001	Data
30	69.957	10.535	45.861	46.742	47.984	Data
42	69.616	10.544	45.942	46.742	48.001	Data
42	70.122	10.573	45.945	46.741	48.001	Data
43	69.616	10.544	45.942	46.742	48.001	Data
43	70.122	10.573	45.945	46.741	48.001	Data
44	69.616	10.544	45.942	46.742	48.001	Data
44	70.122	10.573	45.945	46.741	48.001	Data
45	69.616	10.544	45.942	46.742	48.001	Data
45	70.122	10.573	45.945	46.741	48.001	Data
46.5	70.189	10.522	45.870	46.742	47.971	Data
46.5	69.957	10.535	45.861	46.742	47.984	Data
48	68.959	10.527	45.945	46.742	48.008	Data
48	69.207	10.594	45.945	46.742	48.001	Data
49	68.959	10.527	45.945	46.742	48.008	Data
49	69.207	10.594	45.945	46.742	48.001	Data
50	68.959	10.527	45.945	46.742	48.008	Data
50	69.207	10.594	45.945	46.742	48.001	Data
51	69.207	10.594	45.945	46.742	48.001	Data
51	68.959	10.527	45.945	46.742	48.008	Data
52.5	69.957	10.535	45.861	46.742	47.984	Data
52.5	70.189	10.522	45.870	46.742	47.971	Data
54	69.396	10.520	46.028	46.742	48.009	Data
54	69.783	10.458	46.015	46.742	48.009	Data
55	69.783	10.458	46.015	46.742	48.009	Data
55	69.396	10.520	46.028	46.742	48.009	Data
56	69.783	10.458	46.015	46.742	48.009	Data
56	69.396	10.520	46.028	46.742	48.009	Data
57	69.783	10.458	46.015	46.742	48.009	Data
57	69.396	10.520	46.028	46.742	48.009	Data
58.5	70.189	10.522	45.870	46.742	47.971	Data
58.5	69.957	10.535	45.861	46.742	47.984	Data
60.5	70.243	10.525	46.062	46.739	48.012	Data
60.5	70.493	10.510	46.054	46.738	48.012	Data

Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	70.243	10.525	46.062	46.739	48.012	Data
61.75	70.493	10.510	46.054	46.738	48.012	Data
63	70.243	10.525	46.062	46.739	48.012	Data
63	70.493	10.510	46.054	46.738	48.012	Data
64	70.243	10.525	46.062	46.739	48.012	Data
64	70.493	10.510	46.054	46.738	48.012	Data

Table 392: Vertical sweep VG at 46.5 (in), q=70 RO-tip VG AoA 8 +Wing11 VG at span y=46.5 (in)

D.32. Vertical VG vortex sweep at y=46.5 (in), q=70, α_{VG}=4, α_W=7, SQ-tip

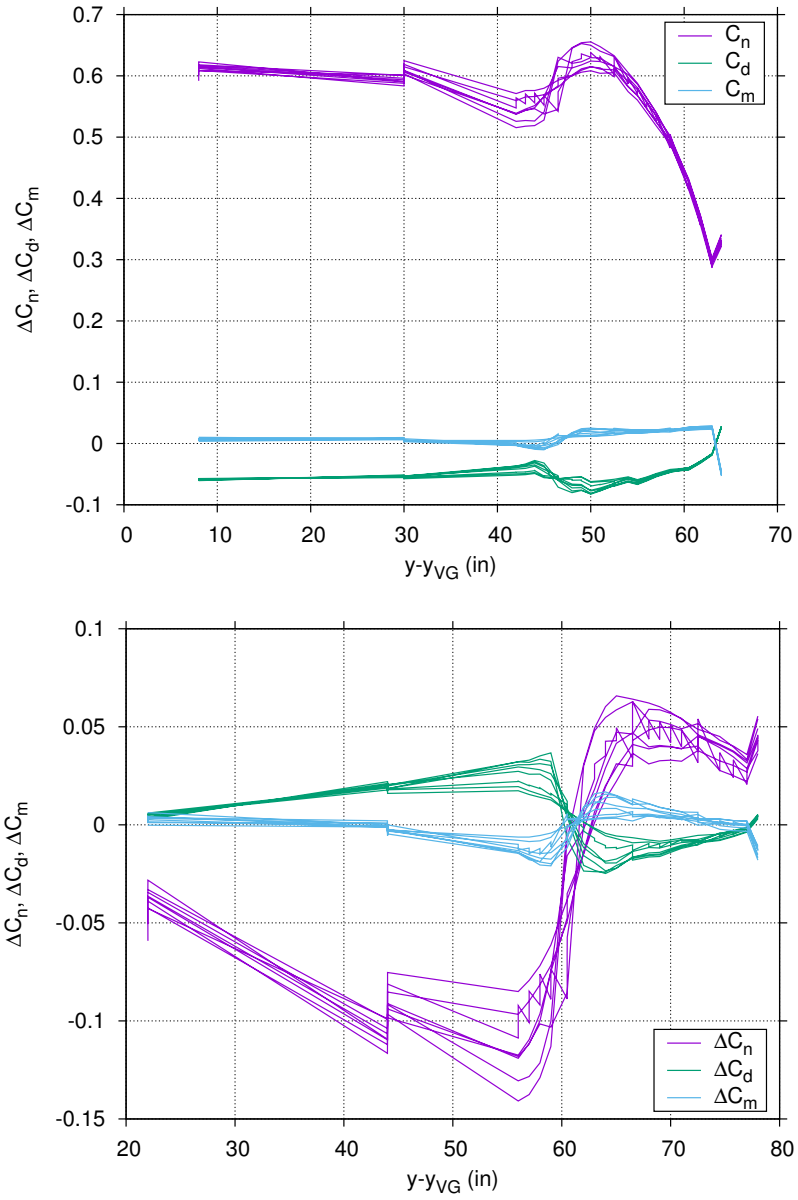

Figure 85. Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.918	6.609	56.992	46.506	42.004	Data
8	70.603	6.514	56.995	46.506	42.004	Data
30	70.918	6.609	56.992	46.506	42.004	Data
30	70.004	6.542	57.019	46.497	41.985	Data
30	69.700	6.608	57.039	46.505	41.981	Data
30	70.062	6.521	57.077	46.488	41.997	Data
30	70.853	6.536	57.034	46.495	42.004	Data

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.250	6.540	57.039	46.504	41.981	Data
30	70.603	6.514	56.995	46.506	42.004	Data
30	70.376	6.504	57.080	46.489	41.997	Data
30	70.693	6.500	57.029	46.495	42.004	Data
30	69.769	6.510	57.018	46.497	41.977	Data
42	70.004	6.542	57.019	46.497	41.985	Data
42	69.769	6.510	57.018	46.497	41.977	Data
43	70.004	6.542	57.019	46.497	41.985	Data
43	69.769	6.510	57.018	46.497	41.977	Data
44	70.004	6.542	57.019	46.497	41.985	Data
44	69.769	6.510	57.018	46.497	41.977	Data
45	70.004	6.542	57.019	46.497	41.985	Data
45	69.769	6.510	57.018	46.497	41.977	Data
46.5	70.918	6.609	56.992	46.506	42.004	Data
46.5	70.603	6.514	56.995	46.506	42.004	Data
48	70.062	6.521	57.077	46.488	41.997	Data
48	70.376	6.504	57.080	46.489	41.997	Data
49	70.062	6.521	57.077	46.488	41.997	Data
49	70.376	6.504	57.080	46.489	41.997	Data
50	70.062	6.521	57.077	46.488	41.997	Data
50	70.376	6.504	57.080	46.489	41.997	Data
51	70.062	6.521	57.077	46.488	41.997	Data
51	70.376	6.504	57.080	46.489	41.997	Data
52.5	70.918	6.609	56.992	46.506	42.004	Data
52.5	70.603	6.514	56.995	46.506	42.004	Data
54	70.250	6.540	57.039	46.504	41.981	Data
54	69.700	6.608	57.039	46.505	41.981	Data
55	70.250	6.540	57.039	46.504	41.981	Data
55	69.700	6.608	57.039	46.505	41.981	Data
56	70.250	6.540	57.039	46.504	41.981	Data
56	69.700	6.608	57.039	46.505	41.981	Data
57	70.250	6.540	57.039	46.504	41.981	Data
57	69.700	6.608	57.039	46.505	41.981	Data
58.5	70.918	6.609	56.992	46.506	42.004	Data
58.5	70.603	6.514	56.995	46.506	42.004	Data
60.5	70.693	6.500	57.029	46.495	42.004	Data
60.5	70.853	6.536	57.034	46.495	42.004	Data
61.75	70.693	6.500	57.029	46.495	42.004	Data
61.75	70.853	6.536	57.034	46.495	42.004	Data
63	70.693	6.500	57.029	46.495	42.004	Data
63	70.853	6.536	57.034	46.495	42.004	Data
64	70.853	6.536	57.034	46.495	42.004	Data
64	70.693	6.500	57.029	46.495	42.004	Data

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 393: Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.336	6.538	56.999	46.507	42.984	Data
8	69.836	6.562	56.988	46.507	42.983	Data
30	69.692	6.494	57.021	46.497	42.999	Data
30	69.336	6.538	56.999	46.507	42.984	Data
30	68.411	6.491	57.036	46.506	43.006	Data
30	69.575	6.492	57.080	46.49	42.997	Data
30	69.605	6.524	57.038	46.504	43.006	Data
30	71.264	6.521	57.035	46.494	43.000	Data
30	69.819	6.510	57.027	46.497	42.999	Data
30	71.508	6.494	57.031	46.495	43.000	Data
30	69.836	6.562	56.988	46.507	42.983	Data
30	69.349	6.504	57.074	46.488	42.997	Data
42	69.692	6.494	57.021	46.497	42.999	Data
42	69.819	6.510	57.027	46.497	42.999	Data
43	69.692	6.494	57.021	46.497	42.999	Data
43	69.819	6.510	57.027	46.497	42.999	Data
44	69.692	6.494	57.021	46.497	42.999	Data
44	69.819	6.510	57.027	46.497	42.999	Data
45	69.692	6.494	57.021	46.497	42.999	Data
45	69.819	6.510	57.027	46.497	42.999	Data
46.5	69.336	6.538	56.999	46.507	42.984	Data
46.5	69.836	6.562	56.988	46.507	42.983	Data
48	69.575	6.492	57.080	46.49	42.997	Data
48	69.349	6.504	57.074	46.488	42.997	Data
49	69.575	6.492	57.080	46.49	42.997	Data
49	69.349	6.504	57.074	46.488	42.997	Data
50	69.575	6.492	57.080	46.49	42.997	Data
50	69.349	6.504	57.074	46.488	42.997	Data
51	69.575	6.492	57.080	46.49	42.997	Data
51	69.349	6.504	57.074	46.488	42.997	Data
52.5	69.336	6.538	56.999	46.507	42.984	Data
52.5	69.836	6.562	56.988	46.507	42.983	Data
54	68.411	6.491	57.036	46.506	43.006	Data
54	69.605	6.524	57.038	46.504	43.006	Data
55	68.411	6.491	57.036	46.506	43.006	Data
55	69.605	6.524	57.038	46.504	43.006	Data
56	69.605	6.524	57.038	46.504	43.006	Data
56	68.411	6.491	57.036	46.506	43.006	Data

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	69.605	6.524	57.038	46.504	43.006	Data
57	68.411	6.491	57.036	46.506	43.006	Data
58.5	69.836	6.562	56.988	46.507	42.983	Data
58.5	69.336	6.538	56.999	46.507	42.984	Data
60.5	71.508	6.494	57.031	46.495	43.000	Data
60.5	71.264	6.521	57.035	46.494	43.000	Data
61.75	71.508	6.494	57.031	46.495	43.000	Data
61.75	71.264	6.521	57.035	46.494	43.000	Data
63	71.264	6.521	57.035	46.494	43.000	Data
63	71.508	6.494	57.031	46.495	43.000	Data
64	71.264	6.521	57.035	46.494	43.000	Data
64	71.508	6.494	57.031	46.495	43.000	Data

Table 394: Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.586	6.573	56.972	46.508	43.980	Data
8	69.708	6.584	56.981	46.506	43.979	Data
8	70.753	6.601	57.002	46.494	44.003	Data
8	70.334	6.577	57.003	46.496	44.003	Data
30	69.481	6.463	57.042	46.492	43.998	Data
30	69.777	6.527	57.041	46.497	44.003	Data
30	69.615	6.543	57.039	46.504	44.009	Data
30	69.586	6.573	56.972	46.508	43.980	Data
30	69.430	6.543	57.044	46.502	43.997	Data
30	70.753	6.601	57.002	46.494	44.003	Data
30	70.254	6.509	57.038	46.505	44.009	Data
30	70.833	6.564	57.026	46.494	43.992	Data
30	69.739	6.535	57.038	46.492	43.998	Data
30	71.268	6.515	57.031	46.495	43.993	Data
30	69.356	6.543	57.081	46.488	44.001	Data
30	69.601	6.537	57.019	46.498	44.008	Data
30	70.334	6.577	57.003	46.496	44.003	Data
30	69.708	6.584	56.981	46.506	43.979	Data
30	68.643	6.513	57.070	46.485	43.999	Data
30	69.552	6.473	57.078	46.488	44.001	Data
30	69.415	6.510	57.073	46.487	43.998	Data
30	69.547	6.505	57.042	46.502	43.997	Data
30	69.787	6.531	57.018	46.498	44.008	Data
30	68.455	6.566	57.045	46.498	44.003	Data
42	69.777	6.527	57.041	46.497	44.003	Data
42	69.601	6.537	57.019	46.498	44.008	Data

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
42	69.787	6.531	57.018	46.498	44.008	Data
42	68.455	6.566	57.045	46.498	44.003	Data
43	69.777	6.527	57.041	46.497	44.003	Data
43	69.601	6.537	57.019	46.498	44.008	Data
43	69.787	6.531	57.018	46.498	44.008	Data
43	68.455	6.566	57.045	46.498	44.003	Data
44	69.777	6.527	57.041	46.497	44.003	Data
44	69.601	6.537	57.019	46.498	44.008	Data
44	69.787	6.531	57.018	46.498	44.008	Data
44	68.455	6.566	57.045	46.498	44.003	Data
45	69.777	6.527	57.041	46.497	44.003	Data
45	69.601	6.537	57.019	46.498	44.008	Data
45	69.787	6.531	57.018	46.498	44.008	Data
45	68.455	6.566	57.045	46.498	44.003	Data
46.5	70.334	6.577	57.003	46.496	44.003	Data
46.5	69.586	6.573	56.972	46.508	43.980	Data
46.5	69.708	6.584	56.981	46.506	43.979	Data
46.5	70.753	6.601	57.002	46.494	44.003	Data
48	69.552	6.473	57.078	46.488	44.001	Data
48	69.356	6.543	57.081	46.488	44.001	Data
48	69.415	6.510	57.073	46.487	43.998	Data
48	68.643	6.513	57.070	46.485	43.999	Data
49	69.552	6.473	57.078	46.488	44.001	Data
49	69.356	6.543	57.081	46.488	44.001	Data
49	69.415	6.510	57.073	46.487	43.998	Data
49	68.643	6.513	57.070	46.485	43.999	Data
50	69.552	6.473	57.078	46.488	44.001	Data
50	69.356	6.543	57.081	46.488	44.001	Data
50	69.415	6.510	57.073	46.487	43.998	Data
50	68.643	6.513	57.070	46.485	43.999	Data
51	69.552	6.473	57.078	46.488	44.001	Data
51	69.356	6.543	57.081	46.488	44.001	Data
51	69.415	6.510	57.073	46.487	43.998	Data
51	68.643	6.513	57.070	46.485	43.999	Data
52.5	70.334	6.577	57.003	46.496	44.003	Data
52.5	69.586	6.573	56.972	46.508	43.980	Data
52.5	69.708	6.584	56.981	46.506	43.979	Data
52.5	70.753	6.601	57.002	46.494	44.003	Data
54	69.615	6.543	57.039	46.504	44.009	Data
54	69.430	6.543	57.044	46.502	43.997	Data
54	70.254	6.509	57.038	46.505	44.009	Data
54	69.547	6.505	57.042	46.502	43.997	Data
55	69.615	6.543	57.039	46.504	44.009	Data
55	69.430	6.543	57.044	46.502	43.997	Data

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	70.254	6.509	57.038	46.505	44.009	Data
55	69.547	6.505	57.042	46.502	43.997	Data
56	69.615	6.543	57.039	46.504	44.009	Data
56	69.430	6.543	57.044	46.502	43.997	Data
56	70.254	6.509	57.038	46.505	44.009	Data
56	69.547	6.505	57.042	46.502	43.997	Data
57	69.615	6.543	57.039	46.504	44.009	Data
57	70.254	6.509	57.038	46.505	44.009	Data
57	69.430	6.543	57.044	46.502	43.997	Data
57	69.547	6.505	57.042	46.502	43.997	Data
58.5	70.334	6.577	57.003	46.496	44.003	Data
58.5	69.586	6.573	56.972	46.508	43.980	Data
58.5	69.708	6.584	56.981	46.506	43.979	Data
58.5	70.753	6.601	57.002	46.494	44.003	Data
60.5	71.268	6.515	57.031	46.495	43.993	Data
60.5	70.833	6.564	57.026	46.494	43.992	Data
60.5	69.739	6.535	57.038	46.492	43.998	Data
60.5	69.481	6.463	57.042	46.492	43.998	Data
61.75	71.268	6.515	57.031	46.495	43.993	Data
61.75	70.833	6.564	57.026	46.494	43.992	Data
61.75	69.739	6.535	57.038	46.492	43.998	Data
61.75	69.481	6.463	57.042	46.492	43.998	Data
63	71.268	6.515	57.031	46.495	43.993	Data
63	70.833	6.564	57.026	46.494	43.992	Data
63	69.739	6.535	57.038	46.492	43.998	Data
63	69.481	6.463	57.042	46.492	43.998	Data
64	70.833	6.564	57.026	46.494	43.992	Data
64	71.268	6.515	57.031	46.495	43.993	Data
64	69.739	6.535	57.038	46.492	43.998	Data
64	69.481	6.463	57.042	46.492	43.998	Data

Table 395: Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.870	6.621	57.015	46.506	44.976	Data
8	69.835	6.533	57.005	46.506	44.976	Data
30	70.094	6.470	57.045	46.504	44.991	Data
30	69.486	6.507	57.078	46.489	44.999	Data
30	69.359	6.526	57.084	46.489	44.998	Data
30	69.870	6.621	57.015	46.506	44.976	Data
30	69.595	6.553	57.023	46.498	44.991	Data
30	70.933	6.544	57.033	46.493	45.011	Data

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.835	6.533	57.005	46.506	44.976	Data
30	69.328	6.558	57.045	46.505	44.990	Data
30	70.867	6.452	57.033	46.496	45.011	Data
30	69.121	6.515	57.015	46.498	44.991	Data
42	69.595	6.553	57.023	46.498	44.991	Data
42	69.121	6.515	57.015	46.498	44.991	Data
43	69.595	6.553	57.023	46.498	44.991	Data
43	69.121	6.515	57.015	46.498	44.991	Data
44	69.595	6.553	57.023	46.498	44.991	Data
44	69.121	6.515	57.015	46.498	44.991	Data
45	69.595	6.553	57.023	46.498	44.991	Data
45	69.121	6.515	57.015	46.498	44.991	Data
46.5	69.870	6.621	57.015	46.506	44.976	Data
46.5	69.835	6.533	57.005	46.506	44.976	Data
48	69.359	6.526	57.084	46.489	44.998	Data
48	69.486	6.507	57.078	46.489	44.999	Data
49	69.359	6.526	57.084	46.489	44.998	Data
49	69.486	6.507	57.078	46.489	44.999	Data
50	69.359	6.526	57.084	46.489	44.998	Data
50	69.486	6.507	57.078	46.489	44.999	Data
51	69.359	6.526	57.084	46.489	44.998	Data
51	69.486	6.507	57.078	46.489	44.999	Data
52.5	69.870	6.621	57.015	46.506	44.976	Data
52.5	69.835	6.533	57.005	46.506	44.976	Data
54	69.328	6.558	57.045	46.505	44.990	Data
54	70.094	6.470	57.045	46.504	44.991	Data
55	69.328	6.558	57.045	46.505	44.990	Data
55	70.094	6.470	57.045	46.504	44.991	Data
56	69.328	6.558	57.045	46.505	44.990	Data
56	70.094	6.470	57.045	46.504	44.991	Data
57	69.328	6.558	57.045	46.505	44.990	Data
57	70.094	6.470	57.045	46.504	44.991	Data
58.5	69.870	6.621	57.015	46.506	44.976	Data
58.5	69.835	6.533	57.005	46.506	44.976	Data
60.5	70.933	6.544	57.033	46.493	45.011	Data
60.5	70.867	6.452	57.033	46.496	45.011	Data
61.75	70.933	6.544	57.033	46.493	45.011	Data
61.75	70.867	6.452	57.033	46.496	45.011	Data
63	70.933	6.544	57.033	46.493	45.011	Data
63	70.867	6.452	57.033	46.496	45.011	Data
64	70.933	6.544	57.033	46.493	45.011	Data
64	70.867	6.452	57.033	46.496	45.011	Data

Table 396: Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.740	6.531	56.978	46.506	46.009	Data
8	69.677	6.625	56.979	46.507	46.010	Data
30	69.677	6.625	56.979	46.507	46.010	Data
30	69.534	6.497	57.034	46.505	46.011	Data
30	69.740	6.531	56.978	46.506	46.009	Data
30	69.614	6.473	57.028	46.494	46.007	Data
30	68.911	6.510	57.083	46.488	46.001	Data
30	69.123	6.498	57.082	46.489	46.001	Data
30	68.539	6.512	57.039	46.504	46.012	Data
30	69.017	6.505	57.022	46.497	45.991	Data
30	69.132	6.574	57.035	46.497	45.991	Data
30	70.407	6.540	57.025	46.493	46.006	Data
42	69.017	6.505	57.022	46.497	45.991	Data
42	69.132	6.574	57.035	46.497	45.991	Data
43	69.017	6.505	57.022	46.497	45.991	Data
43	69.132	6.574	57.035	46.497	45.991	Data
44	69.017	6.505	57.022	46.497	45.991	Data
44	69.132	6.574	57.035	46.497	45.991	Data
45	69.017	6.505	57.022	46.497	45.991	Data
45	69.132	6.574	57.035	46.497	45.991	Data
46.5	69.677	6.625	56.979	46.507	46.010	Data
46.5	69.740	6.531	56.978	46.506	46.009	Data
48	69.123	6.498	57.082	46.489	46.001	Data
48	68.911	6.510	57.083	46.488	46.001	Data
49	69.123	6.498	57.082	46.489	46.001	Data
49	68.911	6.510	57.083	46.488	46.001	Data
50	69.123	6.498	57.082	46.489	46.001	Data
50	68.911	6.510	57.083	46.488	46.001	Data
51	69.123	6.498	57.082	46.489	46.001	Data
51	68.911	6.510	57.083	46.488	46.001	Data
52.5	69.740	6.531	56.978	46.506	46.009	Data
52.5	69.677	6.625	56.979	46.507	46.010	Data
54	68.539	6.512	57.039	46.504	46.012	Data
54	69.534	6.497	57.034	46.505	46.011	Data
55	68.539	6.512	57.039	46.504	46.012	Data
55	69.534	6.497	57.034	46.505	46.011	Data
56	68.539	6.512	57.039	46.504	46.012	Data
56	69.534	6.497	57.034	46.505	46.011	Data
57	68.539	6.512	57.039	46.504	46.012	Data
57	69.534	6.497	57.034	46.505	46.011	Data
58.5	69.740	6.531	56.978	46.506	46.009	Data
58.5	69.677	6.625	56.979	46.507	46.010	Data
60.5	69.614	6.473	57.028	46.494	46.007	Data
60.5	70.407	6.540	57.025	46.493	46.006	Data

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	69.614	6.473	57.028	46.494	46.007	Data
61.75	70.407	6.540	57.025	46.493	46.006	Data
63	69.614	6.473	57.028	46.494	46.007	Data
63	70.407	6.540	57.025	46.493	46.006	Data
64	69.614	6.473	57.028	46.494	46.007	Data
64	70.407	6.540	57.025	46.493	46.006	Data

Table 397: Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.069	6.515	56.979	46.506	47.004	Data
8	69.840	6.558	56.991	46.507	47.005	Data
30	70.069	6.515	56.979	46.506	47.004	Data
30	67.952	6.495	57.039	46.503	47.011	Data
30	69.182	6.495	57.077	46.489	46.999	Data
30	70.845	6.511	57.031	46.495	47.018	Data
30	70.634	6.547	57.033	46.492	47.017	Data
30	68.300	6.453	57.082	46.49	46.999	Data
30	68.570	6.535	57.039	46.505	47.012	Data
30	69.840	6.558	56.991	46.507	47.005	Data
30	69.581	6.539	57.026	46.497	46.992	Data
30	69.082	6.514	57.027	46.496	46.992	Data
42	69.082	6.514	57.027	46.496	46.992	Data
42	69.581	6.539	57.026	46.497	46.992	Data
43	69.082	6.514	57.027	46.496	46.992	Data
43	69.581	6.539	57.026	46.497	46.992	Data
44	69.082	6.514	57.027	46.496	46.992	Data
44	69.581	6.539	57.026	46.497	46.992	Data
45	69.082	6.514	57.027	46.496	46.992	Data
45	69.581	6.539	57.026	46.497	46.992	Data
46.5	69.840	6.558	56.991	46.507	47.005	Data
46.5	70.069	6.515	56.979	46.506	47.004	Data
48	69.182	6.495	57.077	46.489	46.999	Data
48	68.300	6.453	57.082	46.49	46.999	Data
49	69.182	6.495	57.077	46.489	46.999	Data
49	68.300	6.453	57.082	46.49	46.999	Data
50	69.182	6.495	57.077	46.489	46.999	Data
50	68.300	6.453	57.082	46.49	46.999	Data
51	69.182	6.495	57.077	46.489	46.999	Data
51	68.300	6.453	57.082	46.49	46.999	Data
52.5	70.069	6.515	56.979	46.506	47.004	Data
52.5	69.840	6.558	56.991	46.507	47.005	Data

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	67.952	6.495	57.039	46.503	47.011	Data
54	68.570	6.535	57.039	46.505	47.012	Data
55	67.952	6.495	57.039	46.503	47.011	Data
55	68.570	6.535	57.039	46.505	47.012	Data
56	67.952	6.495	57.039	46.503	47.011	Data
56	68.570	6.535	57.039	46.505	47.012	Data
57	67.952	6.495	57.039	46.503	47.011	Data
57	68.570	6.535	57.039	46.505	47.012	Data
58.5	70.069	6.515	56.979	46.506	47.004	Data
58.5	69.840	6.558	56.991	46.507	47.005	Data
60.5	70.845	6.511	57.031	46.495	47.018	Data
60.5	70.634	6.547	57.033	46.492	47.017	Data
61.75	70.845	6.511	57.031	46.495	47.018	Data
61.75	70.634	6.547	57.033	46.492	47.017	Data
63	70.845	6.511	57.031	46.495	47.018	Data
63	70.634	6.547	57.033	46.492	47.017	Data
64	70.845	6.511	57.031	46.495	47.018	Data
64	70.634	6.547	57.033	46.492	47.017	Data

Table 398: Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.233	6.599	56.989	46.508	47.995	Data
8	70.081	6.602	56.982	46.506	47.995	Data
30	68.185	6.529	57.041	46.504	48.007	Data
30	70.505	6.504	57.033	46.495	48.012	Data
30	71.233	6.599	56.989	46.508	47.995	Data
30	70.081	6.602	56.982	46.506	47.995	Data
30	68.730	6.498	57.077	46.49	48.009	Data
30	69.067	6.486	57.034	46.498	47.994	Data
30	68.610	6.455	57.078	46.49	48.009	Data
30	68.082	6.503	57.041	46.505	48.007	Data
30	70.291	6.545	57.028	46.493	48.012	Data
30	69.053	6.508	57.044	46.496	47.993	Data
42	69.067	6.486	57.034	46.498	47.994	Data
42	69.053	6.508	57.044	46.496	47.993	Data
43	69.067	6.486	57.034	46.498	47.994	Data
43	69.053	6.508	57.044	46.496	47.993	Data
44	69.067	6.486	57.034	46.498	47.994	Data
44	69.053	6.508	57.044	46.496	47.993	Data
45	69.067	6.486	57.034	46.498	47.994	Data
45	69.053	6.508	57.044	46.496	47.993	Data

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.081	6.602	56.982	46.506	47.995	Data
46.5	71.233	6.599	56.989	46.508	47.995	Data
48	68.730	6.498	57.077	46.49	48.009	Data
48	68.610	6.455	57.078	46.49	48.009	Data
49	68.730	6.498	57.077	46.49	48.009	Data
49	68.610	6.455	57.078	46.49	48.009	Data
50	68.730	6.498	57.077	46.49	48.009	Data
50	68.610	6.455	57.078	46.49	48.009	Data
51	68.730	6.498	57.077	46.49	48.009	Data
51	68.610	6.455	57.078	46.49	48.009	Data
52.5	70.081	6.602	56.982	46.506	47.995	Data
52.5	71.233	6.599	56.989	46.508	47.995	Data
54	68.185	6.529	57.041	46.504	48.007	Data
54	68.082	6.503	57.041	46.505	48.007	Data
55	68.185	6.529	57.041	46.504	48.007	Data
55	68.082	6.503	57.041	46.505	48.007	Data
56	68.185	6.529	57.041	46.504	48.007	Data
56	68.082	6.503	57.041	46.505	48.007	Data
57	68.185	6.529	57.041	46.504	48.007	Data
57	68.082	6.503	57.041	46.505	48.007	Data
58.5	70.081	6.602	56.982	46.506	47.995	Data
58.5	71.233	6.599	56.989	46.508	47.995	Data
60.5	70.505	6.504	57.033	46.495	48.012	Data
60.5	70.291	6.545	57.028	46.493	48.012	Data
61.75	70.505	6.504	57.033	46.495	48.012	Data
61.75	70.291	6.545	57.028	46.493	48.012	Data
63	70.505	6.504	57.033	46.495	48.012	Data
63	70.291	6.545	57.028	46.493	48.012	Data
64	70.505	6.504	57.033	46.495	48.012	Data
64	70.291	6.545	57.028	46.493	48.012	Data

Table 399: Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.631	6.498	57.015	46.498	49.049	Data
8	70.209	6.566	56.986	46.506	48.992	Data
8	69.995	6.566	57.007	46.499	49.048	Data
8	71.366	6.581	56.988	46.506	48.993	Data
30	69.631	6.498	57.015	46.498	49.049	Data
30	68.197	6.582	57.035	46.503	49.001	Data
30	68.832	6.538	57.040	46.496	49.005	Data
30	69.203	6.514	57.073	46.489	48.994	Data

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	71.019	6.529	57.028	46.493	49.001	Data
30	70.209	6.566	56.986	46.506	48.992	Data
30	68.320	6.562	57.041	46.503	49.002	Data
30	69.685	6.482	57.024	46.493	49.001	Data
30	68.924	6.471	57.071	46.489	48.994	Data
30	69.995	6.566	57.007	46.499	49.048	Data
30	71.366	6.581	56.988	46.506	48.993	Data
30	68.796	6.480	57.036	46.499	49.006	Data
42	68.796	6.480	57.036	46.499	49.006	Data
42	68.832	6.538	57.040	46.496	49.005	Data
43	68.796	6.480	57.036	46.499	49.006	Data
43	68.832	6.538	57.040	46.496	49.005	Data
44	68.796	6.480	57.036	46.499	49.006	Data
44	68.832	6.538	57.040	46.496	49.005	Data
45	68.796	6.480	57.036	46.499	49.006	Data
45	68.832	6.538	57.040	46.496	49.005	Data
46.5	69.631	6.498	57.015	46.498	49.049	Data
46.5	69.995	6.566	57.007	46.499	49.048	Data
46.5	70.209	6.566	56.986	46.506	48.992	Data
46.5	71.366	6.581	56.988	46.506	48.993	Data
48	68.924	6.471	57.071	46.489	48.994	Data
48	69.203	6.514	57.073	46.489	48.994	Data
49	68.924	6.471	57.071	46.489	48.994	Data
49	69.203	6.514	57.073	46.489	48.994	Data
50	68.924	6.471	57.071	46.489	48.994	Data
50	69.203	6.514	57.073	46.489	48.994	Data
51	68.924	6.471	57.071	46.489	48.994	Data
51	69.203	6.514	57.073	46.489	48.994	Data
52.5	69.631	6.498	57.015	46.498	49.049	Data
52.5	69.995	6.566	57.007	46.499	49.048	Data
52.5	70.209	6.566	56.986	46.506	48.992	Data
52.5	71.366	6.581	56.988	46.506	48.993	Data
54	68.197	6.582	57.035	46.503	49.001	Data
54	68.320	6.562	57.041	46.503	49.002	Data
55	68.197	6.582	57.035	46.503	49.001	Data
55	68.320	6.562	57.041	46.503	49.002	Data
56	68.197	6.582	57.035	46.503	49.001	Data
56	68.320	6.562	57.041	46.503	49.002	Data
57	68.197	6.582	57.035	46.503	49.001	Data
57	68.320	6.562	57.041	46.503	49.002	Data
58.5	69.631	6.498	57.015	46.498	49.049	Data
58.5	70.209	6.566	56.986	46.506	48.992	Data
58.5	69.995	6.566	57.007	46.499	49.048	Data
58.5	71.366	6.581	56.988	46.506	48.993	Data

Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
60.5	69.685	6.482	57.024	46.493	49.001	Data
60.5	71.019	6.529	57.028	46.493	49.001	Data
61.75	69.685	6.482	57.024	46.493	49.001	Data
61.75	71.019	6.529	57.028	46.493	49.001	Data
63	69.685	6.482	57.024	46.493	49.001	Data
63	71.019	6.529	57.028	46.493	49.001	Data
64	69.685	6.482	57.024	46.493	49.001	Data
64	71.019	6.529	57.028	46.493	49.001	Data

Table 400: Vertical sweep VG at 46.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=46.5 (in)

D.33. Vertical VG vortex sweep at y=52.5 (in), q=70, α_{VG}=4, α_W=7, SQ-tip

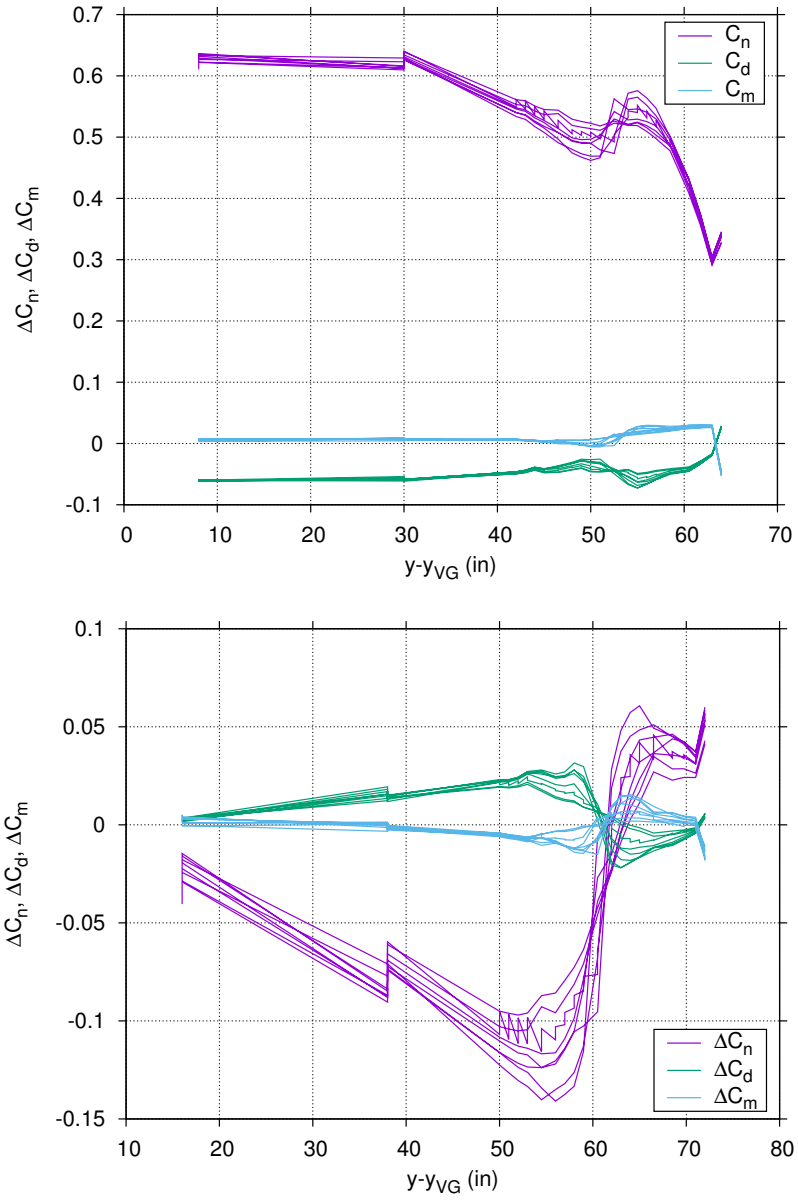

Figure 86. Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.762	6.540	56.999	52.495	41.946	Data
8	70.007	6.585	56.994	52.496	41.948	Data
30	68.454	6.495	57.046	52.494	42.004	Data
30	70.273	6.509	57.031	52.503	42.006	Data
30	70.545	6.502	57.033	52.501	41.993	Data
30	69.762	6.540	56.999	52.495	41.946	Data
30	69.351	6.520	57.034	52.501	41.944	Data

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.007	6.585	56.994	52.496	41.948	Data
30	69.764	6.490	57.041	52.5	41.944	Data
30	69.672	6.534	57.070	52.5	41.993	Data
30	69.834	6.477	57.074	52.5	41.993	Data
30	68.590	6.504	57.044	52.494	42.003	Data
42	70.273	6.509	57.031	52.503	42.006	Data
42	70.545	6.502	57.033	52.501	41.993	Data
43	70.273	6.509	57.031	52.503	42.006	Data
43	70.545	6.502	57.033	52.501	41.993	Data
44	70.273	6.509	57.031	52.503	42.006	Data
44	70.545	6.502	57.033	52.501	41.993	Data
45	70.273	6.509	57.031	52.503	42.006	Data
45	70.545	6.502	57.033	52.501	41.993	Data
46.5	70.007	6.585	56.994	52.496	41.948	Data
46.5	69.762	6.540	56.999	52.495	41.946	Data
48	69.834	6.477	57.074	52.5	41.993	Data
48	69.672	6.534	57.070	52.5	41.993	Data
49	69.834	6.477	57.074	52.5	41.993	Data
49	69.672	6.534	57.070	52.5	41.993	Data
50	69.834	6.477	57.074	52.5	41.993	Data
50	69.672	6.534	57.070	52.5	41.993	Data
51	69.834	6.477	57.074	52.5	41.993	Data
51	69.672	6.534	57.070	52.5	41.993	Data
52.5	70.007	6.585	56.994	52.496	41.948	Data
52.5	69.762	6.540	56.999	52.495	41.946	Data
54	69.764	6.490	57.041	52.5	41.944	Data
54	69.351	6.520	57.034	52.501	41.944	Data
55	69.764	6.490	57.041	52.5	41.944	Data
55	69.351	6.520	57.034	52.501	41.944	Data
56	69.764	6.490	57.041	52.5	41.944	Data
56	69.351	6.520	57.034	52.501	41.944	Data
57	69.764	6.490	57.041	52.5	41.944	Data
57	69.351	6.520	57.034	52.501	41.944	Data
58.5	70.007	6.585	56.994	52.496	41.948	Data
58.5	69.762	6.540	56.999	52.495	41.946	Data
60.5	68.454	6.495	57.046	52.494	42.004	Data
60.5	68.590	6.504	57.044	52.494	42.003	Data
61.75	68.454	6.495	57.046	52.494	42.004	Data
61.75	68.590	6.504	57.044	52.494	42.003	Data
63	68.454	6.495	57.046	52.494	42.004	Data
63	68.590	6.504	57.044	52.494	42.003	Data
64	68.454	6.495	57.046	52.494	42.004	Data
64	68.590	6.504	57.044	52.494	42.003	Data

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 401: Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.612	6.534	56.996	52.497	42.993	Data
8	70.362	6.608	56.993	52.497	42.995	Data
30	69.424	6.502	57.069	52.501	43.000	Data
30	70.435	6.504	57.033	52.502	42.990	Data
30	69.612	6.534	56.996	52.497	42.993	Data
30	68.614	6.535	57.037	52.493	43.003	Data
30	69.789	6.554	57.039	52.502	42.990	Data
30	68.054	6.543	57.045	52.494	43.003	Data
30	68.696	6.563	57.033	52.501	42.995	Data
30	70.362	6.608	56.993	52.497	42.995	Data
30	69.121	6.529	57.042	52.502	42.995	Data
30	69.819	6.491	57.076	52.501	43.000	Data
42	70.435	6.504	57.033	52.502	42.990	Data
42	69.789	6.554	57.039	52.502	42.990	Data
43	70.435	6.504	57.033	52.502	42.990	Data
43	69.789	6.554	57.039	52.502	42.990	Data
44	70.435	6.504	57.033	52.502	42.990	Data
44	69.789	6.554	57.039	52.502	42.990	Data
45	70.435	6.504	57.033	52.502	42.990	Data
45	69.789	6.554	57.039	52.502	42.990	Data
46.5	69.612	6.534	56.996	52.497	42.993	Data
46.5	70.362	6.608	56.993	52.497	42.995	Data
48	69.424	6.502	57.069	52.501	43.000	Data
48	69.819	6.491	57.076	52.501	43.000	Data
49	69.424	6.502	57.069	52.501	43.000	Data
49	69.819	6.491	57.076	52.501	43.000	Data
50	69.424	6.502	57.069	52.501	43.000	Data
50	69.819	6.491	57.076	52.501	43.000	Data
51	69.424	6.502	57.069	52.501	43.000	Data
51	69.819	6.491	57.076	52.501	43.000	Data
52.5	69.612	6.534	56.996	52.497	42.993	Data
52.5	70.362	6.608	56.993	52.497	42.995	Data
54	68.696	6.563	57.033	52.501	42.995	Data
54	69.121	6.529	57.042	52.502	42.995	Data
55	68.696	6.563	57.033	52.501	42.995	Data
55	69.121	6.529	57.042	52.502	42.995	Data
56	68.696	6.563	57.033	52.501	42.995	Data
56	69.121	6.529	57.042	52.502	42.995	Data

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	68.696	6.563	57.033	52.501	42.995	Data
57	69.121	6.529	57.042	52.502	42.995	Data
58.5	70.362	6.608	56.993	52.497	42.995	Data
58.5	69.612	6.534	56.996	52.497	42.993	Data
60.5	68.614	6.535	57.037	52.493	43.003	Data
60.5	68.054	6.543	57.045	52.494	43.003	Data
61.75	68.614	6.535	57.037	52.493	43.003	Data
61.75	68.054	6.543	57.045	52.494	43.003	Data
63	68.054	6.543	57.045	52.494	43.003	Data
63	68.614	6.535	57.037	52.493	43.003	Data
64	68.054	6.543	57.045	52.494	43.003	Data
64	68.614	6.535	57.037	52.493	43.003	Data

Table 402: Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.775	6.577	56.994	52.497	43.991	Data
8	70.187	6.557	57.000	52.498	43.991	Data
30	70.775	6.577	56.994	52.497	43.991	Data
30	70.052	6.577	57.041	52.506	43.998	Data
30	69.345	6.517	57.073	52.499	43.998	Data
30	69.575	6.545	57.034	52.507	43.997	Data
30	68.936	6.562	57.041	52.5	44.010	Data
30	70.187	6.557	57.000	52.498	43.991	Data
30	68.997	6.525	57.063	52.499	43.998	Data
30	69.951	6.550	57.043	52.501	44.010	Data
30	69.173	6.581	57.040	52.502	44.010	Data
30	68.795	6.608	57.044	52.494	44.000	Data
30	69.503	6.502	57.068	52.5	44.000	Data
30	70.061	6.546	57.072	52.501	44.000	Data
30	69.613	6.514	57.047	52.504	44.001	Data
30	69.742	6.517	57.048	52.503	44.001	Data
30	68.660	6.559	57.039	52.494	44.001	Data
30	68.967	6.559	57.039	52.502	44.010	Data
30	69.881	6.520	57.043	52.503	43.995	Data
30	70.704	6.574	57.042	52.502	43.995	Data
42	69.951	6.550	57.043	52.501	44.010	Data
42	69.613	6.514	57.047	52.504	44.001	Data
42	69.742	6.517	57.048	52.503	44.001	Data
42	68.967	6.559	57.039	52.502	44.010	Data
43	69.951	6.550	57.043	52.501	44.010	Data
43	69.613	6.514	57.047	52.504	44.001	Data

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	69.742	6.517	57.048	52.503	44.001	Data
43	68.967	6.559	57.039	52.502	44.010	Data
44	69.951	6.550	57.043	52.501	44.010	Data
44	69.613	6.514	57.047	52.504	44.001	Data
44	68.967	6.559	57.039	52.502	44.010	Data
44	69.742	6.517	57.048	52.503	44.001	Data
45	69.951	6.550	57.043	52.501	44.010	Data
45	69.613	6.514	57.047	52.504	44.001	Data
45	68.967	6.559	57.039	52.502	44.010	Data
45	69.742	6.517	57.048	52.503	44.001	Data
46.5	70.775	6.577	56.994	52.497	43.991	Data
46.5	70.187	6.557	57.000	52.498	43.991	Data
48	70.061	6.546	57.072	52.501	44.000	Data
48	69.345	6.517	57.073	52.499	43.998	Data
48	69.503	6.502	57.068	52.5	44.000	Data
48	68.997	6.525	57.063	52.499	43.998	Data
49	70.061	6.546	57.072	52.501	44.000	Data
49	69.345	6.517	57.073	52.499	43.998	Data
49	69.503	6.502	57.068	52.5	44.000	Data
49	68.997	6.525	57.063	52.499	43.998	Data
50	70.061	6.546	57.072	52.501	44.000	Data
50	69.503	6.502	57.068	52.5	44.000	Data
50	69.345	6.517	57.073	52.499	43.998	Data
50	68.997	6.525	57.063	52.499	43.998	Data
51	70.061	6.546	57.072	52.501	44.000	Data
51	69.503	6.502	57.068	52.5	44.000	Data
51	69.345	6.517	57.073	52.499	43.998	Data
51	68.997	6.525	57.063	52.499	43.998	Data
52.5	70.775	6.577	56.994	52.497	43.991	Data
52.5	70.187	6.557	57.000	52.498	43.991	Data
54	70.052	6.577	57.041	52.506	43.998	Data
54	69.575	6.545	57.034	52.507	43.997	Data
54	69.173	6.581	57.040	52.502	44.010	Data
54	68.936	6.562	57.041	52.5	44.010	Data
55	70.052	6.577	57.041	52.506	43.998	Data
55	69.575	6.545	57.034	52.507	43.997	Data
55	69.173	6.581	57.040	52.502	44.010	Data
55	68.936	6.562	57.041	52.5	44.010	Data
56	70.052	6.577	57.041	52.506	43.998	Data
56	69.575	6.545	57.034	52.507	43.997	Data
56	69.173	6.581	57.040	52.502	44.010	Data
56	68.936	6.562	57.041	52.5	44.010	Data
57	70.052	6.577	57.041	52.506	43.998	Data
57	69.575	6.545	57.034	52.507	43.997	Data

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	69.173	6.581	57.040	52.502	44.010	Data
57	68.936	6.562	57.041	52.5	44.010	Data
58.5	70.187	6.557	57.000	52.498	43.991	Data
58.5	70.775	6.577	56.994	52.497	43.991	Data
60.5	68.795	6.608	57.044	52.494	44.000	Data
60.5	68.660	6.559	57.039	52.494	44.001	Data
60.5	69.881	6.520	57.043	52.503	43.995	Data
60.5	70.704	6.574	57.042	52.502	43.995	Data
61.75	68.795	6.608	57.044	52.494	44.000	Data
61.75	68.660	6.559	57.039	52.494	44.001	Data
61.75	69.881	6.520	57.043	52.503	43.995	Data
61.75	70.704	6.574	57.042	52.502	43.995	Data
63	68.795	6.608	57.044	52.494	44.000	Data
63	69.881	6.520	57.043	52.503	43.995	Data
63	68.660	6.559	57.039	52.494	44.001	Data
63	70.704	6.574	57.042	52.502	43.995	Data
64	68.660	6.559	57.039	52.494	44.001	Data
64	68.795	6.608	57.044	52.494	44.000	Data
64	69.881	6.520	57.043	52.503	43.995	Data
64	70.704	6.574	57.042	52.502	43.995	Data

Table 403: Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.918	6.547	56.996	52.496	44.996	Data
8	69.458	6.533	56.988	52.497	44.996	Data
30	69.603	6.490	57.044	52.5	44.986	Data
30	69.918	6.547	56.996	52.496	44.996	Data
30	69.458	6.533	56.988	52.497	44.996	Data
30	69.122	6.475	57.074	52.5	45.004	Data
30	69.772	6.536	57.073	52.501	45.004	Data
30	68.672	6.553	57.042	52.494	44.995	Data
30	68.800	6.500	57.037	52.502	44.986	Data
30	70.132	6.489	57.032	52.502	44.994	Data
30	69.415	6.530	57.043	52.493	44.995	Data
30	69.961	6.508	57.045	52.501	44.994	Data
42	70.132	6.489	57.032	52.502	44.994	Data
42	69.961	6.508	57.045	52.501	44.994	Data
43	70.132	6.489	57.032	52.502	44.994	Data
43	69.961	6.508	57.045	52.501	44.994	Data
44	70.132	6.489	57.032	52.502	44.994	Data
44	69.961	6.508	57.045	52.501	44.994	Data

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	70.132	6.489	57.032	52.502	44.994	Data
45	69.961	6.508	57.045	52.501	44.994	Data
46.5	69.458	6.533	56.988	52.497	44.996	Data
46.5	69.918	6.547	56.996	52.496	44.996	Data
48	69.122	6.475	57.074	52.5	45.004	Data
48	69.772	6.536	57.073	52.501	45.004	Data
49	69.122	6.475	57.074	52.5	45.004	Data
49	69.772	6.536	57.073	52.501	45.004	Data
50	69.122	6.475	57.074	52.5	45.004	Data
50	69.772	6.536	57.073	52.501	45.004	Data
51	69.122	6.475	57.074	52.5	45.004	Data
51	69.772	6.536	57.073	52.501	45.004	Data
52.5	69.458	6.533	56.988	52.497	44.996	Data
52.5	69.918	6.547	56.996	52.496	44.996	Data
54	68.800	6.500	57.037	52.502	44.986	Data
54	69.603	6.490	57.044	52.5	44.986	Data
55	68.800	6.500	57.037	52.502	44.986	Data
55	69.603	6.490	57.044	52.5	44.986	Data
56	68.800	6.500	57.037	52.502	44.986	Data
56	69.603	6.490	57.044	52.5	44.986	Data
57	68.800	6.500	57.037	52.502	44.986	Data
57	69.603	6.490	57.044	52.5	44.986	Data
58.5	69.458	6.533	56.988	52.497	44.996	Data
58.5	69.918	6.547	56.996	52.496	44.996	Data
60.5	69.415	6.530	57.043	52.493	44.995	Data
60.5	68.672	6.553	57.042	52.494	44.995	Data
61.75	68.672	6.553	57.042	52.494	44.995	Data
61.75	69.415	6.530	57.043	52.493	44.995	Data
63	68.672	6.553	57.042	52.494	44.995	Data
63	69.415	6.530	57.043	52.493	44.995	Data
64	68.672	6.553	57.042	52.494	44.995	Data
64	69.415	6.530	57.043	52.493	44.995	Data

Table 404: Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.102	6.525	56.988	52.495	46.008	Data
8	70.137	6.537	56.990	52.496	46.008	Data
30	67.917	6.545	57.040	52.495	45.992	Data
30	70.102	6.525	56.988	52.495	46.008	Data
30	69.148	6.515	57.073	52.499	45.997	Data
30	69.697	6.479	57.038	52.502	45.997	Data

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	68.813	6.509	57.036	52.501	46.019	Data
30	68.647	6.508	57.043	52.501	46.018	Data
30	68.019	6.516	57.043	52.495	45.993	Data
30	70.137	6.537	56.990	52.496	46.008	Data
30	69.714	6.467	57.073	52.5	45.996	Data
30	69.379	6.558	57.036	52.501	45.997	Data
42	69.697	6.479	57.038	52.502	45.997	Data
42	69.379	6.558	57.036	52.501	45.997	Data
43	69.697	6.479	57.038	52.502	45.997	Data
43	69.379	6.558	57.036	52.501	45.997	Data
44	69.697	6.479	57.038	52.502	45.997	Data
44	69.379	6.558	57.036	52.501	45.997	Data
45	69.697	6.479	57.038	52.502	45.997	Data
45	69.379	6.558	57.036	52.501	45.997	Data
46.5	70.102	6.525	56.988	52.495	46.008	Data
46.5	70.137	6.537	56.990	52.496	46.008	Data
48	69.148	6.515	57.073	52.499	45.997	Data
48	69.714	6.467	57.073	52.5	45.996	Data
49	69.148	6.515	57.073	52.499	45.997	Data
49	69.714	6.467	57.073	52.5	45.996	Data
50	69.148	6.515	57.073	52.499	45.997	Data
50	69.714	6.467	57.073	52.5	45.996	Data
51	69.148	6.515	57.073	52.499	45.997	Data
51	69.714	6.467	57.073	52.5	45.996	Data
52.5	70.102	6.525	56.988	52.495	46.008	Data
52.5	70.137	6.537	56.990	52.496	46.008	Data
54	68.647	6.508	57.043	52.501	46.018	Data
54	68.813	6.509	57.036	52.501	46.019	Data
55	68.647	6.508	57.043	52.501	46.018	Data
55	68.813	6.509	57.036	52.501	46.019	Data
56	68.647	6.508	57.043	52.501	46.018	Data
56	68.813	6.509	57.036	52.501	46.019	Data
57	68.647	6.508	57.043	52.501	46.018	Data
57	68.813	6.509	57.036	52.501	46.019	Data
58.5	70.102	6.525	56.988	52.495	46.008	Data
58.5	70.137	6.537	56.990	52.496	46.008	Data
60.5	67.917	6.545	57.040	52.495	45.992	Data
60.5	68.019	6.516	57.043	52.495	45.993	Data
61.75	67.917	6.545	57.040	52.495	45.992	Data
61.75	68.019	6.516	57.043	52.495	45.993	Data
63	67.917	6.545	57.040	52.495	45.992	Data
63	68.019	6.516	57.043	52.495	45.993	Data
64	67.917	6.545	57.040	52.495	45.992	Data
64	68.019	6.516	57.043	52.495	45.993	Data

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 405: Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	71.077	6.605	57.006	52.496	46.995	Data
8	69.706	6.559	57.000	52.497	46.994	Data
30	71.077	6.605	57.006	52.496	46.995	Data
30	68.977	6.551	57.037	52.501	46.998	Data
30	69.119	6.545	57.081	52.5	46.991	Data
30	67.887	6.546	57.042	52.495	47.007	Data
30	68.646	6.535	57.032	52.502	46.998	Data
30	70.341	6.509	57.033	52.501	46.990	Data
30	69.728	6.484	57.073	52.5	46.991	Data
30	69.706	6.559	57.000	52.497	46.994	Data
30	67.304	6.501	57.031	52.495	47.007	Data
30	69.647	6.542	57.041	52.499	46.990	Data
42	70.341	6.509	57.033	52.501	46.990	Data
42	69.647	6.542	57.041	52.499	46.990	Data
43	70.341	6.509	57.033	52.501	46.990	Data
43	69.647	6.542	57.041	52.499	46.990	Data
44	70.341	6.509	57.033	52.501	46.990	Data
44	69.647	6.542	57.041	52.499	46.990	Data
45	70.341	6.509	57.033	52.501	46.990	Data
45	69.647	6.542	57.041	52.499	46.990	Data
46.5	71.077	6.605	57.006	52.496	46.995	Data
46.5	69.706	6.559	57.000	52.497	46.994	Data
48	69.728	6.484	57.073	52.5	46.991	Data
48	69.119	6.545	57.081	52.5	46.991	Data
49	69.728	6.484	57.073	52.5	46.991	Data
49	69.119	6.545	57.081	52.5	46.991	Data
50	69.728	6.484	57.073	52.5	46.991	Data
50	69.119	6.545	57.081	52.5	46.991	Data
51	69.728	6.484	57.073	52.5	46.991	Data
51	69.119	6.545	57.081	52.5	46.991	Data
52.5	69.706	6.559	57.000	52.497	46.994	Data
52.5	71.077	6.605	57.006	52.496	46.995	Data
54	68.646	6.535	57.032	52.502	46.998	Data
54	68.977	6.551	57.037	52.501	46.998	Data
55	68.646	6.535	57.032	52.502	46.998	Data
55	68.977	6.551	57.037	52.501	46.998	Data
56	68.646	6.535	57.032	52.502	46.998	Data
56	68.977	6.551	57.037	52.501	46.998	Data

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	68.646	6.535	57.032	52.502	46.998	Data
57	68.977	6.551	57.037	52.501	46.998	Data
58.5	69.706	6.559	57.000	52.497	46.994	Data
58.5	71.077	6.605	57.006	52.496	46.995	Data
60.5	67.887	6.546	57.042	52.495	47.007	Data
60.5	67.304	6.501	57.031	52.495	47.007	Data
61.75	67.887	6.546	57.042	52.495	47.007	Data
61.75	67.304	6.501	57.031	52.495	47.007	Data
63	67.887	6.546	57.042	52.495	47.007	Data
63	67.304	6.501	57.031	52.495	47.007	Data
64	67.887	6.546	57.042	52.495	47.007	Data
64	67.304	6.501	57.031	52.495	47.007	Data

Table 406: Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.726	6.571	57.009	52.496	48.010	Data
8	69.532	6.598	57.016	52.496	48.009	Data
30	69.012	6.560	57.040	52.501	48.000	Data
30	69.532	6.598	57.016	52.496	48.009	Data
30	69.855	6.497	57.033	52.502	47.993	Data
30	68.188	6.553	57.038	52.501	48.001	Data
30	69.755	6.468	57.077	52.5	48.006	Data
30	69.726	6.571	57.009	52.496	48.010	Data
30	68.182	6.529	57.036	52.494	48.004	Data
30	68.348	6.541	57.031	52.493	48.004	Data
30	68.739	6.483	57.075	52.5	48.007	Data
30	69.169	6.507	57.027	52.501	47.992	Data
42	69.855	6.497	57.033	52.502	47.993	Data
42	69.169	6.507	57.027	52.501	47.992	Data
43	69.855	6.497	57.033	52.502	47.993	Data
43	69.169	6.507	57.027	52.501	47.992	Data
44	69.855	6.497	57.033	52.502	47.993	Data
44	69.169	6.507	57.027	52.501	47.992	Data
45	69.855	6.497	57.033	52.502	47.993	Data
45	69.169	6.507	57.027	52.501	47.992	Data
46.5	69.532	6.598	57.016	52.496	48.009	Data
46.5	69.726	6.571	57.009	52.496	48.010	Data
48	69.755	6.468	57.077	52.5	48.006	Data
48	68.739	6.483	57.075	52.5	48.007	Data
49	69.755	6.468	57.077	52.5	48.006	Data
49	68.739	6.483	57.075	52.5	48.007	Data

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	69.755	6.468	57.077	52.5	48.006	Data
50	68.739	6.483	57.075	52.5	48.007	Data
51	68.739	6.483	57.075	52.5	48.007	Data
51	69.755	6.468	57.077	52.5	48.006	Data
52.5	69.532	6.598	57.016	52.496	48.009	Data
52.5	69.726	6.571	57.009	52.496	48.010	Data
54	69.012	6.560	57.040	52.501	48.000	Data
54	68.188	6.553	57.038	52.501	48.001	Data
55	69.012	6.560	57.040	52.501	48.000	Data
55	68.188	6.553	57.038	52.501	48.001	Data
56	69.012	6.560	57.040	52.501	48.000	Data
56	68.188	6.553	57.038	52.501	48.001	Data
57	69.012	6.560	57.040	52.501	48.000	Data
57	68.188	6.553	57.038	52.501	48.001	Data
58.5	69.532	6.598	57.016	52.496	48.009	Data
58.5	69.726	6.571	57.009	52.496	48.010	Data
60.5	68.348	6.541	57.031	52.493	48.004	Data
60.5	68.182	6.529	57.036	52.494	48.004	Data
61.75	68.348	6.541	57.031	52.493	48.004	Data
61.75	68.182	6.529	57.036	52.494	48.004	Data
63	68.348	6.541	57.031	52.493	48.004	Data
63	68.182	6.529	57.036	52.494	48.004	Data
64	68.348	6.541	57.031	52.493	48.004	Data
64	68.182	6.529	57.036	52.494	48.004	Data

Table 407: Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.554	6.553	57.005	52.496	49.002	Data
8	68.953	6.586	57.007	52.496	49.001	Data
30	69.519	6.508	57.075	52.5	48.993	Data
30	67.328	6.549	57.028	52.494	49.002	Data
30	69.903	6.521	57.038	52.5	49.005	Data
30	68.347	6.571	57.037	52.502	49.003	Data
30	68.848	6.519	57.029	52.494	49.002	Data
30	70.554	6.553	57.005	52.496	49.002	Data
30	68.953	6.586	57.007	52.496	49.001	Data
30	68.148	6.523	57.040	52.501	49.004	Data
30	69.556	6.528	57.078	52.499	48.993	Data
30	69.767	6.537	57.036	52.501	49.005	Data
42	69.903	6.521	57.038	52.5	49.005	Data
42	69.767	6.537	57.036	52.501	49.005	Data

Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	69.903	6.521	57.038	52.5	49.005	Data
43	69.767	6.537	57.036	52.501	49.005	Data
44	69.903	6.521	57.038	52.5	49.005	Data
44	69.767	6.537	57.036	52.501	49.005	Data
45	69.767	6.537	57.036	52.501	49.005	Data
45	69.903	6.521	57.038	52.5	49.005	Data
46.5	70.554	6.553	57.005	52.496	49.002	Data
46.5	68.953	6.586	57.007	52.496	49.001	Data
48	69.519	6.508	57.075	52.5	48.993	Data
48	69.556	6.528	57.078	52.499	48.993	Data
49	69.556	6.528	57.078	52.499	48.993	Data
49	69.519	6.508	57.075	52.5	48.993	Data
50	69.556	6.528	57.078	52.499	48.993	Data
50	69.519	6.508	57.075	52.5	48.993	Data
51	69.556	6.528	57.078	52.499	48.993	Data
51	69.519	6.508	57.075	52.5	48.993	Data
52.5	70.554	6.553	57.005	52.496	49.002	Data
52.5	68.953	6.586	57.007	52.496	49.001	Data
54	68.148	6.523	57.040	52.501	49.004	Data
54	68.347	6.571	57.037	52.502	49.003	Data
55	68.148	6.523	57.040	52.501	49.004	Data
55	68.347	6.571	57.037	52.502	49.003	Data
56	68.148	6.523	57.040	52.501	49.004	Data
56	68.347	6.571	57.037	52.502	49.003	Data
57	68.148	6.523	57.040	52.501	49.004	Data
57	68.347	6.571	57.037	52.502	49.003	Data
58.5	70.554	6.553	57.005	52.496	49.002	Data
58.5	68.953	6.586	57.007	52.496	49.001	Data
60.5	67.328	6.549	57.028	52.494	49.002	Data
60.5	68.848	6.519	57.029	52.494	49.002	Data
61.75	67.328	6.549	57.028	52.494	49.002	Data
61.75	68.848	6.519	57.029	52.494	49.002	Data
63	67.328	6.549	57.028	52.494	49.002	Data
63	68.848	6.519	57.029	52.494	49.002	Data
64	67.328	6.549	57.028	52.494	49.002	Data
64	68.848	6.519	57.029	52.494	49.002	Data

Table 408: Vertical sweep VG at 52.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=52.5 (in)

D.34. Vertical VG vortex sweep at y=58.5 (in), q=70, α_{VG}=4, α_W=7, SQ-tip

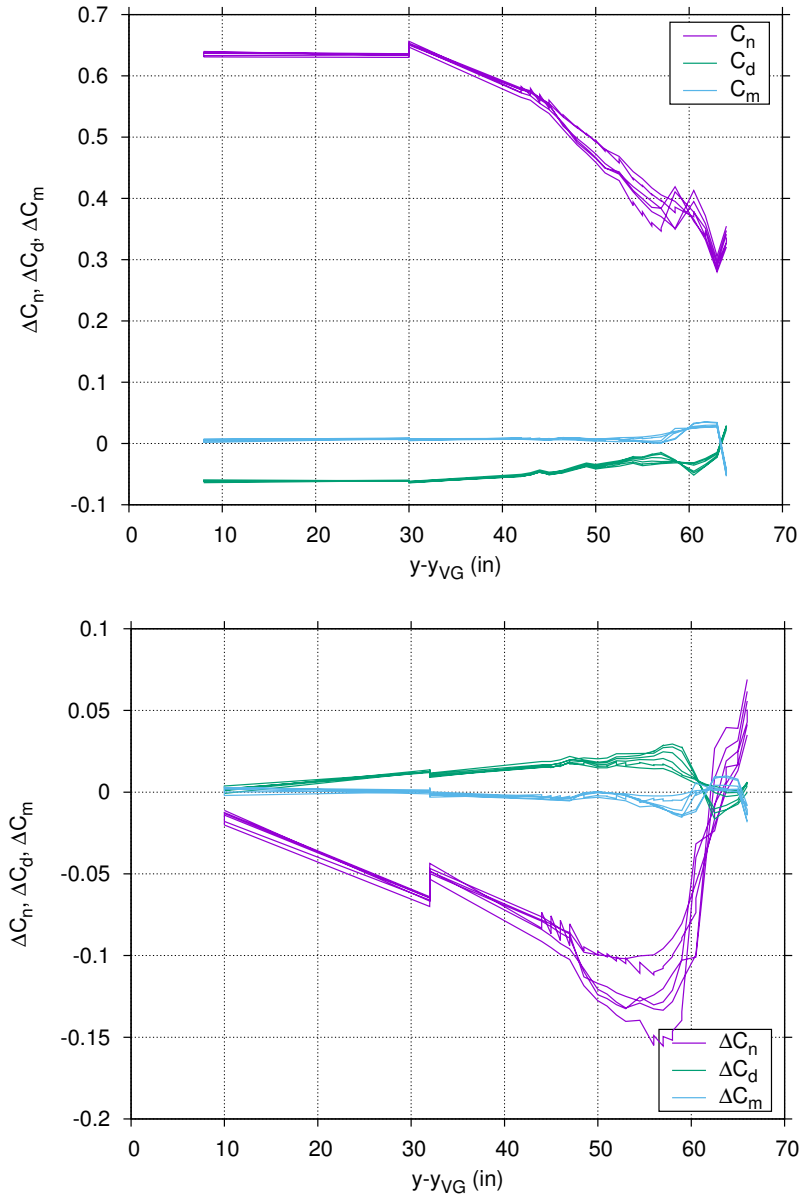

Figure 87. Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.690	6.574	56.987	58.5	42.984	Data
8	70.224	6.525	56.985	58.501	42.983	Data
30	70.224	6.525	56.985	58.501	42.983	Data
30	69.857	6.546	57.036	58.511	42.993	Data
30	69.840	6.539	57.041	58.509	42.993	Data
30	69.690	6.574	56.987	58.5	42.984	Data
30	69.690	6.431	57.071	58.51	42.996	Data

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.688	6.582	57.037	58.515	42.995	Data
30	69.737	6.513	57.039	58.499	42.974	Data
30	68.978	6.473	57.042	58.498	42.974	Data
30	70.752	6.492	57.070	58.51	42.996	Data
30	69.903	6.500	57.033	58.517	42.995	Data
42	70.688	6.582	57.037	58.515	42.995	Data
42	69.903	6.500	57.033	58.517	42.995	Data
43	70.688	6.582	57.037	58.515	42.995	Data
43	69.903	6.500	57.033	58.517	42.995	Data
44	70.688	6.582	57.037	58.515	42.995	Data
44	69.903	6.500	57.033	58.517	42.995	Data
45	70.688	6.582	57.037	58.515	42.995	Data
45	69.903	6.500	57.033	58.517	42.995	Data
46.5	70.224	6.525	56.985	58.501	42.983	Data
46.5	69.690	6.574	56.987	58.5	42.984	Data
48	70.752	6.492	57.070	58.51	42.996	Data
48	69.690	6.431	57.071	58.51	42.996	Data
49	70.752	6.492	57.070	58.51	42.996	Data
49	69.690	6.431	57.071	58.51	42.996	Data
50	70.752	6.492	57.070	58.51	42.996	Data
50	69.690	6.431	57.071	58.51	42.996	Data
51	70.752	6.492	57.070	58.51	42.996	Data
51	69.690	6.431	57.071	58.51	42.996	Data
52.5	70.224	6.525	56.985	58.501	42.983	Data
52.5	69.690	6.574	56.987	58.5	42.984	Data
54	69.840	6.539	57.041	58.509	42.993	Data
54	69.857	6.546	57.036	58.511	42.993	Data
55	69.840	6.539	57.041	58.509	42.993	Data
55	69.857	6.546	57.036	58.511	42.993	Data
56	69.857	6.546	57.036	58.511	42.993	Data
56	69.840	6.539	57.041	58.509	42.993	Data
57	69.857	6.546	57.036	58.511	42.993	Data
57	69.840	6.539	57.041	58.509	42.993	Data
58.5	70.224	6.525	56.985	58.501	42.983	Data
58.5	69.690	6.574	56.987	58.5	42.984	Data
60.5	69.737	6.513	57.039	58.499	42.974	Data
60.5	68.978	6.473	57.042	58.498	42.974	Data
61.75	69.737	6.513	57.039	58.499	42.974	Data
61.75	68.978	6.473	57.042	58.498	42.974	Data
63	69.737	6.513	57.039	58.499	42.974	Data
63	68.978	6.473	57.042	58.498	42.974	Data
64	69.737	6.513	57.039	58.499	42.974	Data
64	68.978	6.473	57.042	58.498	42.974	Data

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 409: Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.858	6.505	56.974	58.503	44.132	Data
8	69.504	6.552	57.002	58.501	44.001	Data
8	70.190	6.576	57.002	58.5	44.001	Data
8	69.673	6.505	56.974	58.503	44.132	Data
30	70.190	6.576	57.002	58.5	44.001	Data
30	69.994	6.512	57.036	58.509	44.017	Data
30	69.275	6.561	57.043	58.499	43.996	Data
30	70.456	6.553	57.042	58.506	43.996	Data
30	69.513	6.546	57.046	58.499	43.996	Data
30	69.504	6.552	57.002	58.501	44.001	Data
30	69.872	6.456	57.069	58.507	43.999	Data
30	71.193	6.453	57.068	58.508	43.996	Data
30	70.580	6.545	57.049	58.51	43.991	Data
30	70.532	6.509	57.069	58.509	43.999	Data
30	69.847	6.505	57.050	58.519	44.002	Data
30	70.397	6.524	57.040	58.505	43.996	Data
30	69.858	6.505	56.974	58.503	44.132	Data
30	70.289	6.463	57.033	58.518	43.999	Data
30	70.932	6.560	57.048	58.51	43.990	Data
30	70.248	6.550	57.037	58.517	43.999	Data
30	70.016	6.534	57.042	58.511	44.017	Data
30	70.228	6.503	57.051	58.52	44.002	Data
30	69.673	6.505	56.974	58.503	44.132	Data
30	70.638	6.485	57.064	58.509	43.997	Data
42	70.289	6.463	57.033	58.518	43.999	Data
42	69.847	6.505	57.050	58.519	44.002	Data
42	70.248	6.550	57.037	58.517	43.999	Data
42	70.228	6.503	57.051	58.52	44.002	Data
43	70.289	6.463	57.033	58.518	43.999	Data
43	69.847	6.505	57.050	58.519	44.002	Data
43	70.248	6.550	57.037	58.517	43.999	Data
43	70.228	6.503	57.051	58.52	44.002	Data
44	70.289	6.463	57.033	58.518	43.999	Data
44	69.847	6.505	57.050	58.519	44.002	Data
44	70.248	6.550	57.037	58.517	43.999	Data
44	70.228	6.503	57.051	58.52	44.002	Data
45	70.289	6.463	57.033	58.518	43.999	Data
45	69.847	6.505	57.050	58.519	44.002	Data

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	70.248	6.550	57.037	58.517	43.999	Data
45	70.228	6.503	57.051	58.52	44.002	Data
46.5	69.504	6.552	57.002	58.501	44.001	Data
46.5	69.858	6.505	56.974	58.503	44.132	Data
46.5	70.190	6.576	57.002	58.5	44.001	Data
46.5	69.673	6.505	56.974	58.503	44.132	Data
48	71.193	6.453	57.068	58.508	43.996	Data
48	69.872	6.456	57.069	58.507	43.999	Data
48	70.532	6.509	57.069	58.509	43.999	Data
48	70.638	6.485	57.064	58.509	43.997	Data
49	71.193	6.453	57.068	58.508	43.996	Data
49	69.872	6.456	57.069	58.507	43.999	Data
49	70.638	6.485	57.064	58.509	43.997	Data
49	70.532	6.509	57.069	58.509	43.999	Data
50	71.193	6.453	57.068	58.508	43.996	Data
50	70.638	6.485	57.064	58.509	43.997	Data
50	69.872	6.456	57.069	58.507	43.999	Data
50	70.532	6.509	57.069	58.509	43.999	Data
51	71.193	6.453	57.068	58.508	43.996	Data
51	70.638	6.485	57.064	58.509	43.997	Data
51	69.872	6.456	57.069	58.507	43.999	Data
51	70.532	6.509	57.069	58.509	43.999	Data
52.5	69.858	6.505	56.974	58.503	44.132	Data
52.5	69.504	6.552	57.002	58.501	44.001	Data
52.5	69.673	6.505	56.974	58.503	44.132	Data
52.5	70.190	6.576	57.002	58.5	44.001	Data
54	70.456	6.553	57.042	58.506	43.996	Data
54	69.994	6.512	57.036	58.509	44.017	Data
54	70.397	6.524	57.040	58.505	43.996	Data
54	70.016	6.534	57.042	58.511	44.017	Data
55	70.456	6.553	57.042	58.506	43.996	Data
55	69.994	6.512	57.036	58.509	44.017	Data
55	70.397	6.524	57.040	58.505	43.996	Data
55	70.016	6.534	57.042	58.511	44.017	Data
56	70.456	6.553	57.042	58.506	43.996	Data
56	70.397	6.524	57.040	58.505	43.996	Data
56	69.994	6.512	57.036	58.509	44.017	Data
56	70.016	6.534	57.042	58.511	44.017	Data
57	70.456	6.553	57.042	58.506	43.996	Data
57	70.397	6.524	57.040	58.505	43.996	Data
57	70.016	6.534	57.042	58.511	44.017	Data
57	69.994	6.512	57.036	58.509	44.017	Data
58.5	69.858	6.505	56.974	58.503	44.132	Data
58.5	69.504	6.552	57.002	58.501	44.001	Data

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
58.5	70.190	6.576	57.002	58.5	44.001	Data
58.5	69.673	6.505	56.974	58.503	44.132	Data
60.5	69.275	6.561	57.043	58.499	43.996	Data
60.5	69.513	6.546	57.046	58.499	43.996	Data
60.5	70.932	6.560	57.048	58.51	43.990	Data
60.5	70.580	6.545	57.049	58.51	43.991	Data
61.75	69.275	6.561	57.043	58.499	43.996	Data
61.75	69.513	6.546	57.046	58.499	43.996	Data
61.75	70.580	6.545	57.049	58.51	43.991	Data
61.75	70.932	6.560	57.048	58.51	43.990	Data
63	69.275	6.561	57.043	58.499	43.996	Data
63	69.513	6.546	57.046	58.499	43.996	Data
63	70.580	6.545	57.049	58.51	43.991	Data
63	70.932	6.560	57.048	58.51	43.990	Data
64	69.275	6.561	57.043	58.499	43.996	Data
64	70.932	6.560	57.048	58.51	43.990	Data
64	70.580	6.545	57.049	58.51	43.991	Data
64	69.513	6.546	57.046	58.499	43.996	Data

Table 410: Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.256	6.521	57.019	58.501	45.005	Data
8	70.096	6.572	57.009	58.501	45.004	Data
30	70.256	6.521	57.019	58.501	45.005	Data
30	70.268	6.519	57.073	58.511	44.992	Data
30	70.096	6.572	57.009	58.501	45.004	Data
30	69.614	6.576	57.030	58.51	44.993	Data
30	70.451	6.493	57.072	58.509	44.992	Data
30	69.189	6.492	57.038	58.5	45.009	Data
30	69.797	6.491	57.033	58.497	45.009	Data
30	69.215	6.467	57.046	58.509	44.993	Data
30	70.438	6.534	57.035	58.516	44.994	Data
30	70.267	6.542	57.042	58.518	44.994	Data
42	70.438	6.534	57.035	58.516	44.994	Data
42	70.267	6.542	57.042	58.518	44.994	Data
43	70.438	6.534	57.035	58.516	44.994	Data
43	70.267	6.542	57.042	58.518	44.994	Data
44	70.438	6.534	57.035	58.516	44.994	Data
44	70.267	6.542	57.042	58.518	44.994	Data
45	70.438	6.534	57.035	58.516	44.994	Data
45	70.267	6.542	57.042	58.518	44.994	Data

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	70.256	6.521	57.019	58.501	45.005	Data
46.5	70.096	6.572	57.009	58.501	45.004	Data
48	70.451	6.493	57.072	58.509	44.992	Data
48	70.268	6.519	57.073	58.511	44.992	Data
49	70.451	6.493	57.072	58.509	44.992	Data
49	70.268	6.519	57.073	58.511	44.992	Data
50	70.451	6.493	57.072	58.509	44.992	Data
50	70.268	6.519	57.073	58.511	44.992	Data
51	70.451	6.493	57.072	58.509	44.992	Data
51	70.268	6.519	57.073	58.511	44.992	Data
52.5	70.096	6.572	57.009	58.501	45.004	Data
52.5	70.256	6.521	57.019	58.501	45.005	Data
54	69.614	6.576	57.030	58.51	44.993	Data
54	69.215	6.467	57.046	58.509	44.993	Data
55	69.614	6.576	57.030	58.51	44.993	Data
55	69.215	6.467	57.046	58.509	44.993	Data
56	69.614	6.576	57.030	58.51	44.993	Data
56	69.215	6.467	57.046	58.509	44.993	Data
57	69.614	6.576	57.030	58.51	44.993	Data
57	69.215	6.467	57.046	58.509	44.993	Data
58.5	70.096	6.572	57.009	58.501	45.004	Data
58.5	70.256	6.521	57.019	58.501	45.005	Data
60.5	69.189	6.492	57.038	58.5	45.009	Data
60.5	69.797	6.491	57.033	58.497	45.009	Data
61.75	69.189	6.492	57.038	58.5	45.009	Data
61.75	69.797	6.491	57.033	58.497	45.009	Data
63	69.189	6.492	57.038	58.5	45.009	Data
63	69.797	6.491	57.033	58.497	45.009	Data
64	69.189	6.492	57.038	58.5	45.009	Data
64	69.797	6.491	57.033	58.497	45.009	Data

Table 411: Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.955	6.510	56.990	58.5	45.989	Data
8	70.167	6.532	56.995	58.5	45.989	Data
30	69.955	6.510	56.990	58.5	45.989	Data
30	70.566	6.484	57.071	58.509	46.005	Data
30	70.397	6.492	57.062	58.51	46.005	Data
30	69.008	6.538	57.041	58.51	46.016	Data
30	69.008	6.538	57.041	58.51	46.016	Data
30	69.599	6.509	57.041	58.498	45.994	Data

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	69.096	6.524	57.043	58.498	45.994	Data
30	70.167	6.532	56.995	58.5	45.989	Data
30	69.900	6.497	57.035	58.518	45.999	Data
30	70.231	6.539	57.039	58.517	45.999	Data
42	70.231	6.539	57.039	58.517	45.999	Data
42	69.900	6.497	57.035	58.518	45.999	Data
43	70.231	6.539	57.039	58.517	45.999	Data
43	69.900	6.497	57.035	58.518	45.999	Data
44	70.231	6.539	57.039	58.517	45.999	Data
44	69.900	6.497	57.035	58.518	45.999	Data
45	70.231	6.539	57.039	58.517	45.999	Data
45	69.900	6.497	57.035	58.518	45.999	Data
46.5	69.955	6.510	56.990	58.5	45.989	Data
46.5	70.167	6.532	56.995	58.5	45.989	Data
48	70.397	6.492	57.062	58.51	46.005	Data
48	70.566	6.484	57.071	58.509	46.005	Data
49	70.397	6.492	57.062	58.51	46.005	Data
49	70.566	6.484	57.071	58.509	46.005	Data
50	70.397	6.492	57.062	58.51	46.005	Data
50	70.566	6.484	57.071	58.509	46.005	Data
51	70.397	6.492	57.062	58.51	46.005	Data
51	70.566	6.484	57.071	58.509	46.005	Data
52.5	69.955	6.510	56.990	58.5	45.989	Data
52.5	70.167	6.532	56.995	58.5	45.989	Data
54	69.008	6.538	57.041	58.51	46.016	Data
54	69.008	6.538	57.041	58.51	46.016	Data
55	69.008	6.538	57.041	58.51	46.016	Data
55	69.008	6.538	57.041	58.51	46.016	Data
56	69.008	6.538	57.041	58.51	46.016	Data
56	69.008	6.538	57.041	58.51	46.016	Data
57	69.008	6.538	57.041	58.51	46.016	Data
57	69.008	6.538	57.041	58.51	46.016	Data
58.5	69.955	6.510	56.990	58.5	45.989	Data
58.5	70.167	6.532	56.995	58.5	45.989	Data
60.5	69.096	6.524	57.043	58.498	45.994	Data
60.5	69.599	6.509	57.041	58.498	45.994	Data
61.75	69.096	6.524	57.043	58.498	45.994	Data
61.75	69.599	6.509	57.041	58.498	45.994	Data
63	69.096	6.524	57.043	58.498	45.994	Data
63	69.599	6.509	57.041	58.498	45.994	Data
64	69.096	6.524	57.043	58.498	45.994	Data
64	69.599	6.509	57.041	58.498	45.994	Data

Table 412: Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.403	6.514	57.018	58.499	46.992	Data
8	69.468	6.557	57.019	58.499	46.992	Data
30	69.803	6.552	57.037	58.51	47.018	Data
30	68.724	6.516	57.041	58.508	47.018	Data
30	68.770	6.539	57.041	58.498	46.996	Data
30	70.449	6.527	57.067	58.509	47.009	Data
30	69.468	6.557	57.019	58.499	46.992	Data
30	69.390	6.533	57.035	58.509	47.018	Data
30	69.390	6.533	57.035	58.509	47.018	Data
30	70.403	6.514	57.018	58.499	46.992	Data
30	70.097	6.508	57.074	58.51	47.009	Data
30	69.160	6.515	57.040	58.499	46.997	Data
30	70.583	6.551	57.041	58.516	46.990	Data
30	70.427	6.581	57.039	58.516	46.990	Data
42	70.427	6.581	57.039	58.516	46.990	Data
42	70.583	6.551	57.041	58.516	46.990	Data
43	70.427	6.581	57.039	58.516	46.990	Data
43	70.583	6.551	57.041	58.516	46.990	Data
44	70.427	6.581	57.039	58.516	46.990	Data
44	70.583	6.551	57.041	58.516	46.990	Data
45	70.427	6.581	57.039	58.516	46.990	Data
45	70.583	6.551	57.041	58.516	46.990	Data
46.5	70.403	6.514	57.018	58.499	46.992	Data
46.5	69.468	6.557	57.019	58.499	46.992	Data
48	70.449	6.527	57.067	58.509	47.009	Data
48	70.097	6.508	57.074	58.51	47.009	Data
49	70.449	6.527	57.067	58.509	47.009	Data
49	70.097	6.508	57.074	58.51	47.009	Data
50	70.449	6.527	57.067	58.509	47.009	Data
50	70.097	6.508	57.074	58.51	47.009	Data
51	70.449	6.527	57.067	58.509	47.009	Data
51	70.097	6.508	57.074	58.51	47.009	Data
52.5	70.403	6.514	57.018	58.499	46.992	Data
52.5	69.468	6.557	57.019	58.499	46.992	Data
54	69.803	6.552	57.037	58.51	47.018	Data
54	69.390	6.533	57.035	58.509	47.018	Data
54	69.390	6.533	57.035	58.509	47.018	Data
54	68.724	6.516	57.041	58.508	47.018	Data
55	69.803	6.552	57.037	58.51	47.018	Data
55	69.390	6.533	57.035	58.509	47.018	Data
55	69.390	6.533	57.035	58.509	47.018	Data
55	68.724	6.516	57.041	58.508	47.018	Data
56	69.803	6.552	57.037	58.51	47.018	Data
56	69.390	6.533	57.035	58.509	47.018	Data

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	69.390	6.533	57.035	58.509	47.018	Data
56	68.724	6.516	57.041	58.508	47.018	Data
57	69.803	6.552	57.037	58.51	47.018	Data
57	69.390	6.533	57.035	58.509	47.018	Data
57	69.390	6.533	57.035	58.509	47.018	Data
57	68.724	6.516	57.041	58.508	47.018	Data
58.5	70.403	6.514	57.018	58.499	46.992	Data
58.5	69.468	6.557	57.019	58.499	46.992	Data
60.5	68.770	6.539	57.041	58.498	46.996	Data
60.5	69.160	6.515	57.040	58.499	46.997	Data
61.75	68.770	6.539	57.041	58.498	46.996	Data
61.75	69.160	6.515	57.040	58.499	46.997	Data
63	68.770	6.539	57.041	58.498	46.996	Data
63	69.160	6.515	57.040	58.499	46.997	Data
64	68.770	6.539	57.041	58.498	46.996	Data
64	69.160	6.515	57.040	58.499	46.997	Data

Table 413: Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	69.921	6.546	57.028	58.5	48.001	Data
8	70.438	6.530	57.032	58.499	48.001	Data
30	69.619	6.574	57.044	58.497	48.008	Data
30	69.067	6.481	57.040	58.498	48.008	Data
30	69.921	6.546	57.028	58.5	48.001	Data
30	70.438	6.530	57.032	58.499	48.001	Data
30	67.916	6.567	57.028	58.51	48.013	Data
30	70.256	6.473	57.078	58.509	47.991	Data
30	68.501	6.525	57.021	58.507	48.013	Data
30	70.505	6.544	57.044	58.516	47.995	Data
30	70.499	6.496	57.074	58.51	47.991	Data
30	70.493	6.530	57.042	58.517	47.995	Data
42	70.505	6.544	57.044	58.516	47.995	Data
42	70.493	6.530	57.042	58.517	47.995	Data
43	70.505	6.544	57.044	58.516	47.995	Data
43	70.493	6.530	57.042	58.517	47.995	Data
44	70.505	6.544	57.044	58.516	47.995	Data
44	70.493	6.530	57.042	58.517	47.995	Data
45	70.505	6.544	57.044	58.516	47.995	Data
45	70.493	6.530	57.042	58.517	47.995	Data
46.5	69.921	6.546	57.028	58.5	48.001	Data
46.5	70.438	6.530	57.032	58.499	48.001	Data

Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	70.256	6.473	57.078	58.509	47.991	Data
48	70.499	6.496	57.074	58.51	47.991	Data
49	70.499	6.496	57.074	58.51	47.991	Data
49	70.256	6.473	57.078	58.509	47.991	Data
50	70.499	6.496	57.074	58.51	47.991	Data
50	70.256	6.473	57.078	58.509	47.991	Data
51	70.499	6.496	57.074	58.51	47.991	Data
51	70.256	6.473	57.078	58.509	47.991	Data
52.5	69.921	6.546	57.028	58.5	48.001	Data
52.5	70.438	6.530	57.032	58.499	48.001	Data
54	67.916	6.567	57.028	58.51	48.013	Data
54	68.501	6.525	57.021	58.507	48.013	Data
55	67.916	6.567	57.028	58.51	48.013	Data
55	68.501	6.525	57.021	58.507	48.013	Data
56	67.916	6.567	57.028	58.51	48.013	Data
56	68.501	6.525	57.021	58.507	48.013	Data
57	67.916	6.567	57.028	58.51	48.013	Data
57	68.501	6.525	57.021	58.507	48.013	Data
58.5	69.921	6.546	57.028	58.5	48.001	Data
58.5	70.438	6.530	57.032	58.499	48.001	Data
60.5	69.619	6.574	57.044	58.497	48.008	Data
60.5	69.067	6.481	57.040	58.498	48.008	Data
61.75	69.619	6.574	57.044	58.497	48.008	Data
61.75	69.067	6.481	57.040	58.498	48.008	Data
63	69.619	6.574	57.044	58.497	48.008	Data
63	69.067	6.481	57.040	58.498	48.008	Data
64	69.067	6.481	57.040	58.498	48.008	Data
64	69.619	6.574	57.044	58.497	48.008	Data

Table 414: Vertical sweep VG at 58.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=58.5 (in)

D.35. Vertical VG vortex sweep at y=64.5 (in), q=70, α_{VG}=4, α_W=7, SQ-tip

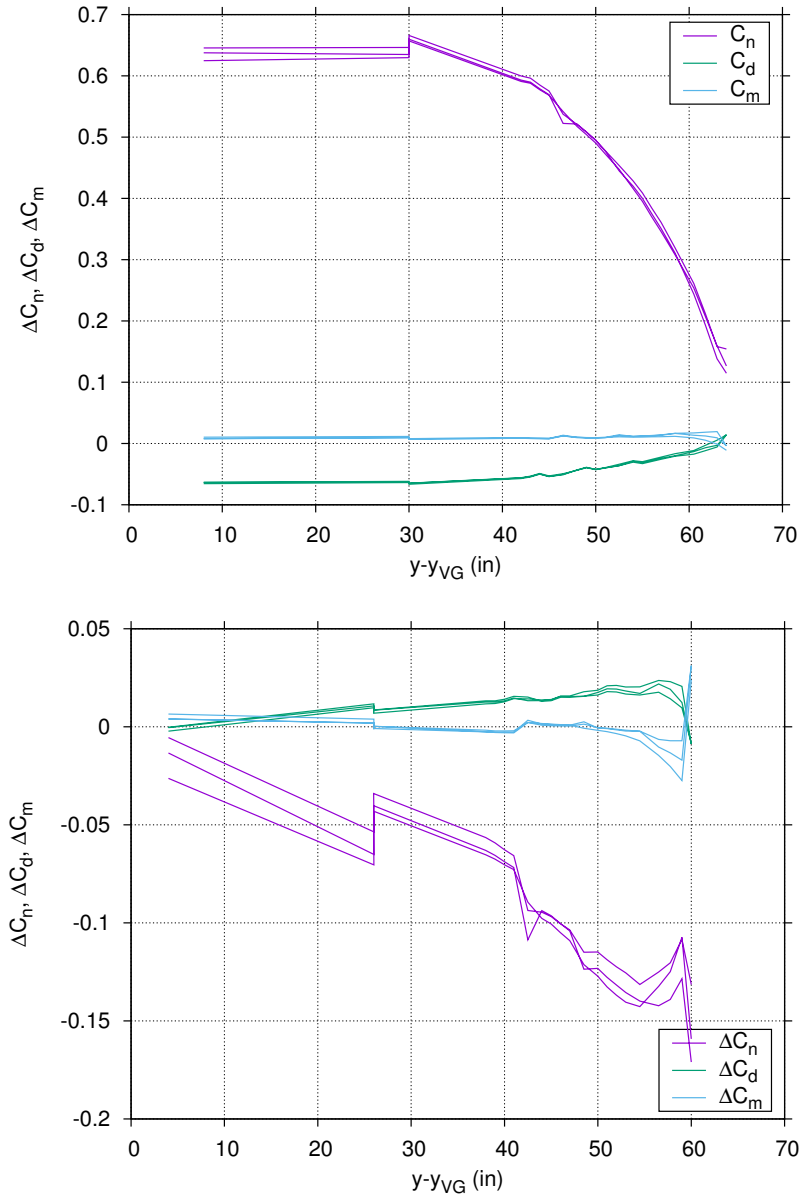

Figure 88. Vertical sweep VG at 64.5 (in), q=70 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 64.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.109	6.497	57.014	64.499	45.017	Data
8	70.148	6.600	57.022	64.499	45.018	Data
30	70.109	6.497	57.014	64.499	45.017	Data
30	70.148	6.600	57.022	64.499	45.018	Data
30	69.527	6.496	57.029	64.512	45.005	Data
30	70.554	6.475	57.074	64.513	45.004	Data
30	69.801	6.525	57.044	64.492	44.991	Data

Vertical sweep VG at 64.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	70.908	6.530	57.067	64.511	45.004	Data
30	70.874	6.516	57.048	64.515	45.006	Data
30	71.753	6.559	57.044	64.491	44.992	Data
30	69.309	6.593	57.030	64.512	45.005	Data
30	70.947	6.546	57.051	64.515	45.006	Data
42	70.874	6.516	57.048	64.515	45.006	Data
42	70.947	6.546	57.051	64.515	45.006	Data
43	70.874	6.516	57.048	64.515	45.006	Data
43	70.947	6.546	57.051	64.515	45.006	Data
44	70.874	6.516	57.048	64.515	45.006	Data
44	70.947	6.546	57.051	64.515	45.006	Data
45	70.874	6.516	57.048	64.515	45.006	Data
45	70.947	6.546	57.051	64.515	45.006	Data
46.5	70.109	6.497	57.014	64.499	45.017	Data
46.5	70.148	6.600	57.022	64.499	45.018	Data
48	70.554	6.475	57.074	64.513	45.004	Data
48	70.908	6.530	57.067	64.511	45.004	Data
49	70.554	6.475	57.074	64.513	45.004	Data
49	70.908	6.530	57.067	64.511	45.004	Data
50	70.554	6.475	57.074	64.513	45.004	Data
50	70.908	6.530	57.067	64.511	45.004	Data
51	70.554	6.475	57.074	64.513	45.004	Data
51	70.908	6.530	57.067	64.511	45.004	Data
52.5	70.148	6.600	57.022	64.499	45.018	Data
52.5	70.109	6.497	57.014	64.499	45.017	Data
54	69.527	6.496	57.029	64.512	45.005	Data
54	69.309	6.593	57.030	64.512	45.005	Data
55	69.527	6.496	57.029	64.512	45.005	Data
55	69.309	6.593	57.030	64.512	45.005	Data
56	69.527	6.496	57.029	64.512	45.005	Data
56	69.309	6.593	57.030	64.512	45.005	Data
57	69.527	6.496	57.029	64.512	45.005	Data
57	69.309	6.593	57.030	64.512	45.005	Data
58.5	70.148	6.600	57.022	64.499	45.018	Data
58.5	70.109	6.497	57.014	64.499	45.017	Data
60.5	69.801	6.525	57.044	64.492	44.991	Data
60.5	71.753	6.559	57.044	64.491	44.992	Data
61.75	69.801	6.525	57.044	64.492	44.991	Data
61.75	71.753	6.559	57.044	64.491	44.992	Data
63	69.801	6.525	57.044	64.492	44.991	Data
63	71.753	6.559	57.044	64.491	44.992	Data
64	71.753	6.559	57.044	64.491	44.992	Data
64	69.801	6.525	57.044	64.492	44.991	Data

Vertical sweep VG at 64.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 415: Vertical sweep VG at 64.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.340	6.517	57.026	64.499	46.014	Data
8	69.811	6.622	57.027	64.498	46.015	Data
30	69.811	6.622	57.027	64.498	46.015	Data
30	70.340	6.517	57.026	64.499	46.014	Data
30	71.083	6.479	57.066	64.509	45.998	Data
30	69.071	6.543	57.033	64.514	45.997	Data
30	69.587	6.563	57.030	64.511	45.997	Data
30	70.782	6.534	57.067	64.51	45.998	Data
30	70.450	6.525	57.049	64.515	45.991	Data
30	70.960	6.520	57.048	64.515	45.991	Data
30	70.275	6.542	57.041	64.491	46.015	Data
30	70.275	6.542	57.041	64.491	46.015	Data
42	70.960	6.520	57.048	64.515	45.991	Data
42	70.450	6.525	57.049	64.515	45.991	Data
43	70.960	6.520	57.048	64.515	45.991	Data
43	70.450	6.525	57.049	64.515	45.991	Data
44	70.960	6.520	57.048	64.515	45.991	Data
44	70.450	6.525	57.049	64.515	45.991	Data
45	70.960	6.520	57.048	64.515	45.991	Data
45	70.450	6.525	57.049	64.515	45.991	Data
46.5	70.340	6.517	57.026	64.499	46.014	Data
46.5	69.811	6.622	57.027	64.498	46.015	Data
48	71.083	6.479	57.066	64.509	45.998	Data
48	70.782	6.534	57.067	64.51	45.998	Data
49	71.083	6.479	57.066	64.509	45.998	Data
49	70.782	6.534	57.067	64.51	45.998	Data
50	71.083	6.479	57.066	64.509	45.998	Data
50	70.782	6.534	57.067	64.51	45.998	Data
51	71.083	6.479	57.066	64.509	45.998	Data
51	70.782	6.534	57.067	64.51	45.998	Data
52.5	70.340	6.517	57.026	64.499	46.014	Data
52.5	69.811	6.622	57.027	64.498	46.015	Data
54	69.071	6.543	57.033	64.514	45.997	Data
54	69.587	6.563	57.030	64.511	45.997	Data
55	69.071	6.543	57.033	64.514	45.997	Data
55	69.587	6.563	57.030	64.511	45.997	Data
56	69.071	6.543	57.033	64.514	45.997	Data
56	69.587	6.563	57.030	64.511	45.997	Data

Vertical sweep VG at 64.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	69.071	6.543	57.033	64.514	45.997	Data
57	69.587	6.563	57.030	64.511	45.997	Data
58.5	69.811	6.622	57.027	64.498	46.015	Data
58.5	70.340	6.517	57.026	64.499	46.014	Data
60.5	70.275	6.542	57.041	64.491	46.015	Data
60.5	70.275	6.542	57.041	64.491	46.015	Data
61.75	70.275	6.542	57.041	64.491	46.015	Data
61.75	70.275	6.542	57.041	64.491	46.015	Data
63	70.275	6.542	57.041	64.491	46.015	Data
63	70.275	6.542	57.041	64.491	46.015	Data
64	70.275	6.542	57.041	64.491	46.015	Data
64	70.275	6.542	57.041	64.491	46.015	Data

Table 416: Vertical sweep VG at 64.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	70.474	6.586	57.028	64.498	47.009	Data
8	70.213	6.545	57.033	64.5	47.009	Data
30	70.213	6.545	57.033	64.5	47.009	Data
30	70.474	6.586	57.028	64.498	47.009	Data
30	69.008	6.507	57.029	64.512	46.990	Data
30	71.063	6.511	57.046	64.515	47.004	Data
30	70.718	6.539	57.068	64.51	46.996	Data
30	70.597	6.502	57.067	64.51	46.995	Data
30	69.097	6.507	57.022	64.513	46.991	Data
30	69.562	6.532	57.047	64.493	47.005	Data
30	69.562	6.532	57.047	64.493	47.005	Data
30	71.129	6.520	57.045	64.514	47.004	Data
42	71.063	6.511	57.046	64.515	47.004	Data
42	71.129	6.520	57.045	64.514	47.004	Data
43	71.063	6.511	57.046	64.515	47.004	Data
43	71.129	6.520	57.045	64.514	47.004	Data
44	71.063	6.511	57.046	64.515	47.004	Data
44	71.129	6.520	57.045	64.514	47.004	Data
45	71.063	6.511	57.046	64.515	47.004	Data
45	71.129	6.520	57.045	64.514	47.004	Data
46.5	70.213	6.545	57.033	64.5	47.009	Data
46.5	70.474	6.586	57.028	64.498	47.009	Data
48	70.718	6.539	57.068	64.51	46.996	Data
48	70.597	6.502	57.067	64.51	46.995	Data
49	70.718	6.539	57.068	64.51	46.996	Data
49	70.597	6.502	57.067	64.51	46.995	Data

Vertical sweep VG at 64.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	70.718	6.539	57.068	64.51	46.996	Data
50	70.597	6.502	57.067	64.51	46.995	Data
51	70.718	6.539	57.068	64.51	46.996	Data
51	70.597	6.502	57.067	64.51	46.995	Data
52.5	70.213	6.545	57.033	64.5	47.009	Data
52.5	70.474	6.586	57.028	64.498	47.009	Data
54	69.097	6.507	57.022	64.513	46.991	Data
54	69.008	6.507	57.029	64.512	46.990	Data
55	69.097	6.507	57.022	64.513	46.991	Data
55	69.008	6.507	57.029	64.512	46.990	Data
56	69.008	6.507	57.029	64.512	46.990	Data
56	69.097	6.507	57.022	64.513	46.991	Data
57	69.008	6.507	57.029	64.512	46.990	Data
57	69.097	6.507	57.022	64.513	46.991	Data
58.5	70.474	6.586	57.028	64.498	47.009	Data
58.5	70.213	6.545	57.033	64.5	47.009	Data
60.5	69.562	6.532	57.047	64.493	47.005	Data
60.5	69.562	6.532	57.047	64.493	47.005	Data
61.75	69.562	6.532	57.047	64.493	47.005	Data
61.75	69.562	6.532	57.047	64.493	47.005	Data
63	69.562	6.532	57.047	64.493	47.005	Data
63	69.562	6.532	57.047	64.493	47.005	Data
64	69.562	6.532	57.047	64.493	47.005	Data
64	69.562	6.532	57.047	64.493	47.005	Data

Table 417: Vertical sweep VG at 64.5 (in), q=70 SQ-tip VG AoA 4 VG at span y=64.5 (in)

D.36. Vertical VG vortex sweep at y=46.5 (in), q=45, α_{VG}=4, α_W=7, RO-tip

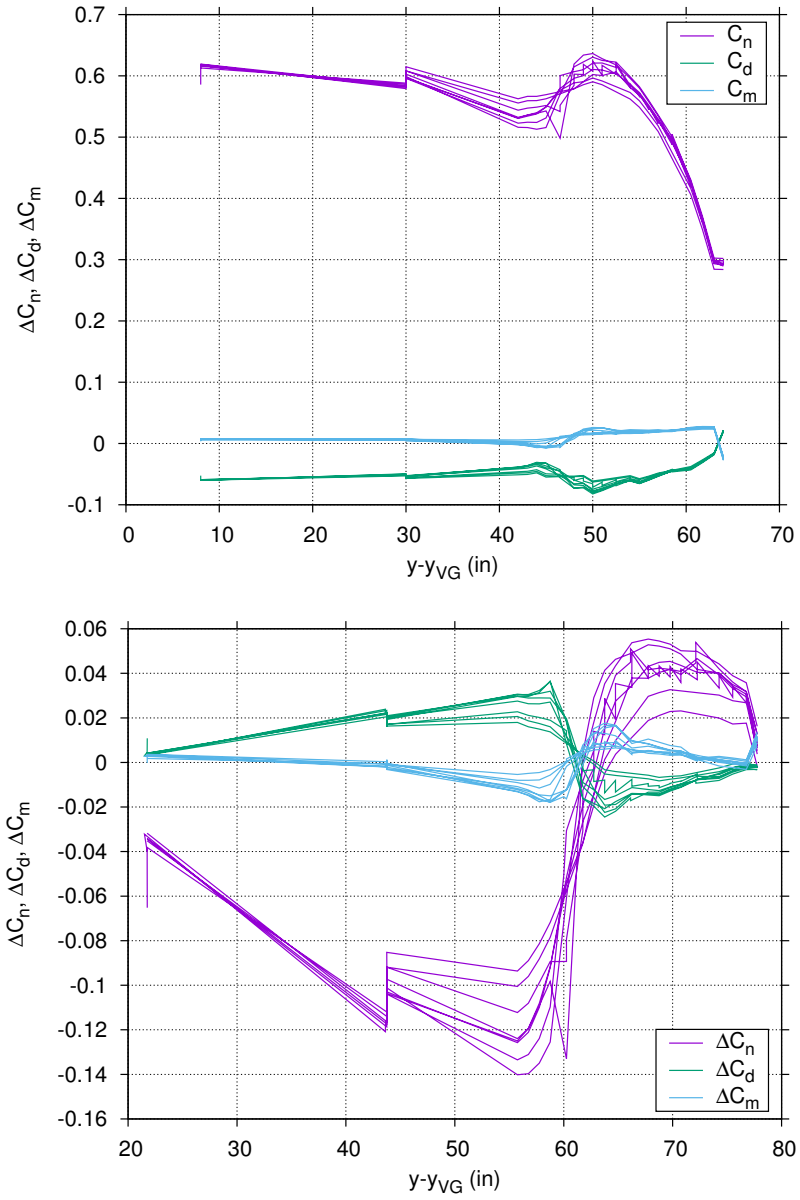

Figure 89. Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	43.858	6.547	57.000	46.748	41.976	Data
30	44.915	6.558	57.004	46.742	42.009	Data
30	45.391	6.569	57.004	46.742	41.992	Data
30	45.111	6.555	57.039	46.743	41.986	Data
30	44.977	6.588	57.010	46.742	41.992	Data
30	45.145	6.578	57.044	46.745	41.997	Data
30	44.833	6.568	57.006	46.742	42.008	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	43.753	6.543	56.994	46.748	41.985	Data
42	43.858	6.547	57.000	46.748	41.976	Data
42	43.753	6.543	56.994	46.748	41.985	Data
43	43.858	6.547	57.000	46.748	41.976	Data
43	43.753	6.543	56.994	46.748	41.985	Data
44	43.858	6.547	57.000	46.748	41.976	Data
44	43.753	6.543	56.994	46.748	41.985	Data
45	43.858	6.547	57.000	46.748	41.976	Data
45	43.753	6.543	56.994	46.748	41.985	Data
48	45.145	6.578	57.044	46.745	41.997	Data
48	45.111	6.555	57.039	46.743	41.986	Data
49	45.145	6.578	57.044	46.745	41.997	Data
49	45.111	6.555	57.039	46.743	41.986	Data
50	45.145	6.578	57.044	46.745	41.997	Data
50	45.111	6.555	57.039	46.743	41.986	Data
51	45.145	6.578	57.044	46.745	41.997	Data
51	45.111	6.555	57.039	46.743	41.986	Data
54	44.915	6.558	57.004	46.742	42.009	Data
54	44.833	6.568	57.006	46.742	42.008	Data
55	44.915	6.558	57.004	46.742	42.009	Data
55	44.833	6.568	57.006	46.742	42.008	Data
56	44.915	6.558	57.004	46.742	42.009	Data
56	44.833	6.568	57.006	46.742	42.008	Data
57	44.915	6.558	57.004	46.742	42.009	Data
57	44.833	6.568	57.006	46.742	42.008	Data
60.5	44.977	6.588	57.010	46.742	41.992	Data
60.5	45.391	6.569	57.004	46.742	41.992	Data
61.75	44.977	6.588	57.010	46.742	41.992	Data
61.75	45.391	6.569	57.004	46.742	41.992	Data
63	44.977	6.588	57.010	46.742	41.992	Data
63	45.391	6.569	57.004	46.742	41.992	Data
64	44.977	6.588	57.010	46.742	41.992	Data
64	45.391	6.569	57.004	46.742	41.992	Data

Table 418: Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.353	6.573	57.038	46.744	43.007	Data
30	44.971	6.552	57.010	46.742	43.002	Data
30	44.893	6.592	57.012	46.741	43.020	Data
30	45.357	6.557	57.008	46.742	43.021	Data
30	45.206	6.592	57.050	46.744	43.007	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.676	6.571	57.015	46.741	43.002	Data
30	43.883	6.546	57.000	46.749	42.996	Data
30	43.877	6.569	57.002	46.748	42.996	Data
42	43.883	6.546	57.000	46.749	42.996	Data
42	43.877	6.569	57.002	46.748	42.996	Data
43	43.883	6.546	57.000	46.749	42.996	Data
43	43.877	6.569	57.002	46.748	42.996	Data
44	43.883	6.546	57.000	46.749	42.996	Data
44	43.877	6.569	57.002	46.748	42.996	Data
45	43.883	6.546	57.000	46.749	42.996	Data
45	43.877	6.569	57.002	46.748	42.996	Data
48	45.353	6.573	57.038	46.744	43.007	Data
48	45.206	6.592	57.050	46.744	43.007	Data
49	45.353	6.573	57.038	46.744	43.007	Data
49	45.206	6.592	57.050	46.744	43.007	Data
50	45.353	6.573	57.038	46.744	43.007	Data
50	45.206	6.592	57.050	46.744	43.007	Data
51	45.353	6.573	57.038	46.744	43.007	Data
51	45.206	6.592	57.050	46.744	43.007	Data
54	44.676	6.571	57.015	46.741	43.002	Data
54	44.971	6.552	57.010	46.742	43.002	Data
55	44.676	6.571	57.015	46.741	43.002	Data
55	44.971	6.552	57.010	46.742	43.002	Data
56	44.676	6.571	57.015	46.741	43.002	Data
56	44.971	6.552	57.010	46.742	43.002	Data
57	44.676	6.571	57.015	46.741	43.002	Data
57	44.971	6.552	57.010	46.742	43.002	Data
60.5	44.893	6.592	57.012	46.741	43.020	Data
60.5	45.357	6.557	57.008	46.742	43.021	Data
61.75	44.893	6.592	57.012	46.741	43.020	Data
61.75	45.357	6.557	57.008	46.742	43.021	Data
63	44.893	6.592	57.012	46.741	43.020	Data
63	45.357	6.557	57.008	46.742	43.021	Data
64	44.893	6.592	57.012	46.741	43.020	Data
64	45.357	6.557	57.008	46.742	43.021	Data

Table 419: Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.400	6.594	56.967	46.743	44.015	Data
8	45.610	6.611	56.971	46.744	44.015	Data
8	45.478	6.588	56.981	46.749	44.009	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.973	6.609	56.984	46.749	44.008	Data
30	44.824	6.544	56.977	46.741	43.996	Data
30	44.797	6.506	56.984	46.74	43.996	Data
30	45.094	6.570	57.043	46.746	44.005	Data
30	45.246	6.564	57.042	46.745	44.005	Data
30	44.973	6.609	56.984	46.749	44.008	Data
30	45.279	6.573	56.988	46.747	43.977	Data
30	45.270	6.579	56.993	46.746	43.977	Data
30	45.197	6.551	57.007	46.742	44.034	Data
30	45.344	6.539	57.005	46.742	43.998	Data
30	45.105	6.606	56.986	46.743	43.999	Data
30	45.490	6.532	57.005	46.743	43.997	Data
30	44.762	6.589	57.016	46.743	44.011	Data
30	45.478	6.588	56.981	46.749	44.009	Data
30	43.652	6.562	57.001	46.748	44.002	Data
30	44.626	6.592	57.018	46.742	44.011	Data
30	45.610	6.611	56.971	46.744	44.015	Data
30	45.110	6.554	57.006	46.742	44.034	Data
30	43.319	6.554	56.996	46.748	44.002	Data
30	44.536	6.607	56.983	46.743	43.999	Data
30	45.400	6.594	56.967	46.743	44.015	Data
42	45.344	6.539	57.005	46.742	43.998	Data
42	43.319	6.554	56.996	46.748	44.002	Data
42	45.490	6.532	57.005	46.743	43.997	Data
42	43.652	6.562	57.001	46.748	44.002	Data
43	43.319	6.554	56.996	46.748	44.002	Data
43	45.344	6.539	57.005	46.742	43.998	Data
43	45.490	6.532	57.005	46.743	43.997	Data
43	43.652	6.562	57.001	46.748	44.002	Data
44	43.319	6.554	56.996	46.748	44.002	Data
44	45.344	6.539	57.005	46.742	43.998	Data
44	45.490	6.532	57.005	46.743	43.997	Data
44	43.652	6.562	57.001	46.748	44.002	Data
45	43.319	6.554	56.996	46.748	44.002	Data
45	45.344	6.539	57.005	46.742	43.998	Data
45	45.490	6.532	57.005	46.743	43.997	Data
45	43.652	6.562	57.001	46.748	44.002	Data
46.5	45.400	6.594	56.967	46.743	44.015	Data
46.5	45.478	6.588	56.981	46.749	44.009	Data
46.5	45.610	6.611	56.971	46.744	44.015	Data
46.5	44.973	6.609	56.984	46.749	44.008	Data
48	45.279	6.573	56.988	46.747	43.977	Data
48	45.270	6.579	56.993	46.746	43.977	Data
48	45.094	6.570	57.043	46.746	44.005	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	45.246	6.564	57.042	46.745	44.005	Data
49	45.279	6.573	56.988	46.747	43.977	Data
49	45.270	6.579	56.993	46.746	43.977	Data
49	45.094	6.570	57.043	46.746	44.005	Data
49	45.246	6.564	57.042	46.745	44.005	Data
50	45.279	6.573	56.988	46.747	43.977	Data
50	45.270	6.579	56.993	46.746	43.977	Data
50	45.094	6.570	57.043	46.746	44.005	Data
50	45.246	6.564	57.042	46.745	44.005	Data
51	45.279	6.573	56.988	46.747	43.977	Data
51	45.270	6.579	56.993	46.746	43.977	Data
51	45.094	6.570	57.043	46.746	44.005	Data
51	45.246	6.564	57.042	46.745	44.005	Data
52.5	45.478	6.588	56.981	46.749	44.009	Data
52.5	45.400	6.594	56.967	46.743	44.015	Data
52.5	45.610	6.611	56.971	46.744	44.015	Data
52.5	44.973	6.609	56.984	46.749	44.008	Data
54	44.762	6.589	57.016	46.743	44.011	Data
54	44.626	6.592	57.018	46.742	44.011	Data
54	44.824	6.544	56.977	46.741	43.996	Data
54	44.797	6.506	56.984	46.74	43.996	Data
55	44.762	6.589	57.016	46.743	44.011	Data
55	44.626	6.592	57.018	46.742	44.011	Data
55	44.797	6.506	56.984	46.74	43.996	Data
55	44.824	6.544	56.977	46.741	43.996	Data
56	44.762	6.589	57.016	46.743	44.011	Data
56	44.797	6.506	56.984	46.74	43.996	Data
56	44.626	6.592	57.018	46.742	44.011	Data
56	44.824	6.544	56.977	46.741	43.996	Data
57	44.762	6.589	57.016	46.743	44.011	Data
57	44.797	6.506	56.984	46.74	43.996	Data
57	44.626	6.592	57.018	46.742	44.011	Data
57	44.824	6.544	56.977	46.741	43.996	Data
58.5	45.478	6.588	56.981	46.749	44.009	Data
58.5	45.610	6.611	56.971	46.744	44.015	Data
58.5	45.400	6.594	56.967	46.743	44.015	Data
58.5	44.973	6.609	56.984	46.749	44.008	Data
60.5	45.110	6.554	57.006	46.742	44.034	Data
60.5	45.105	6.606	56.986	46.743	43.999	Data
60.5	45.197	6.551	57.007	46.742	44.034	Data
60.5	44.536	6.607	56.983	46.743	43.999	Data
61.75	45.110	6.554	57.006	46.742	44.034	Data
61.75	45.105	6.606	56.986	46.743	43.999	Data
61.75	45.197	6.551	57.007	46.742	44.034	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	44.536	6.607	56.983	46.743	43.999	Data
63	45.110	6.554	57.006	46.742	44.034	Data
63	45.105	6.606	56.986	46.743	43.999	Data
63	45.197	6.551	57.007	46.742	44.034	Data
63	44.536	6.607	56.983	46.743	43.999	Data
64	45.105	6.606	56.986	46.743	43.999	Data
64	45.110	6.554	57.006	46.742	44.034	Data
64	45.197	6.551	57.007	46.742	44.034	Data
64	44.536	6.607	56.983	46.743	43.999	Data

Table 420: Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.997	6.624	56.979	46.749	45.014	Data
8	45.261	6.655	56.979	46.751	45.014	Data
30	45.656	6.579	57.006	46.741	45.030	Data
30	44.736	6.562	57.015	46.742	44.986	Data
30	45.742	6.543	57.011	46.741	45.030	Data
30	45.062	6.542	57.046	46.747	44.998	Data
30	45.269	6.592	57.047	46.744	44.998	Data
30	44.997	6.624	56.979	46.749	45.014	Data
30	45.261	6.655	56.979	46.751	45.014	Data
30	43.463	6.541	56.998	46.747	44.993	Data
30	43.760	6.564	56.996	46.748	44.993	Data
30	44.951	6.571	57.021	46.743	44.986	Data
42	43.760	6.564	56.996	46.748	44.993	Data
42	43.463	6.541	56.998	46.747	44.993	Data
43	43.760	6.564	56.996	46.748	44.993	Data
43	43.463	6.541	56.998	46.747	44.993	Data
44	43.760	6.564	56.996	46.748	44.993	Data
44	43.463	6.541	56.998	46.747	44.993	Data
45	43.760	6.564	56.996	46.748	44.993	Data
45	43.463	6.541	56.998	46.747	44.993	Data
46.5	44.997	6.624	56.979	46.749	45.014	Data
46.5	45.261	6.655	56.979	46.751	45.014	Data
48	45.269	6.592	57.047	46.744	44.998	Data
48	45.062	6.542	57.046	46.747	44.998	Data
49	45.269	6.592	57.047	46.744	44.998	Data
49	45.062	6.542	57.046	46.747	44.998	Data
50	45.269	6.592	57.047	46.744	44.998	Data
50	45.062	6.542	57.046	46.747	44.998	Data
51	45.269	6.592	57.047	46.744	44.998	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	45.062	6.542	57.046	46.747	44.998	Data
52.5	45.261	6.655	56.979	46.751	45.014	Data
52.5	44.997	6.624	56.979	46.749	45.014	Data
54	44.736	6.562	57.015	46.742	44.986	Data
54	44.951	6.571	57.021	46.743	44.986	Data
55	44.736	6.562	57.015	46.742	44.986	Data
55	44.951	6.571	57.021	46.743	44.986	Data
56	44.951	6.571	57.021	46.743	44.986	Data
56	44.736	6.562	57.015	46.742	44.986	Data
57	44.951	6.571	57.021	46.743	44.986	Data
57	44.736	6.562	57.015	46.742	44.986	Data
58.5	44.997	6.624	56.979	46.749	45.014	Data
58.5	45.261	6.655	56.979	46.751	45.014	Data
60.5	45.656	6.579	57.006	46.741	45.030	Data
60.5	45.742	6.543	57.011	46.741	45.030	Data
61.75	45.656	6.579	57.006	46.741	45.030	Data
61.75	45.742	6.543	57.011	46.741	45.030	Data
63	45.656	6.579	57.006	46.741	45.030	Data
63	45.742	6.543	57.011	46.741	45.030	Data
64	45.742	6.543	57.011	46.741	45.030	Data
64	45.656	6.579	57.006	46.741	45.030	Data

Table 421: Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.802	6.670	56.989	46.749	46.011	Data
8	44.436	6.613	56.982	46.75	46.011	Data
30	45.035	6.561	57.037	46.745	46.000	Data
30	45.090	6.554	57.042	46.746	46.001	Data
30	44.802	6.670	56.989	46.749	46.011	Data
30	43.481	6.522	57.000	46.748	46.004	Data
30	44.561	6.563	57.025	46.743	45.999	Data
30	45.468	6.596	57.011	46.742	46.032	Data
30	44.903	6.539	57.022	46.743	45.999	Data
30	44.436	6.613	56.982	46.75	46.011	Data
30	43.383	6.569	57.001	46.747	46.004	Data
30	45.401	6.558	57.005	46.74	46.031	Data
42	43.481	6.522	57.000	46.748	46.004	Data
42	43.383	6.569	57.001	46.747	46.004	Data
43	43.481	6.522	57.000	46.748	46.004	Data
43	43.383	6.569	57.001	46.747	46.004	Data
44	43.481	6.522	57.000	46.748	46.004	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	43.383	6.569	57.001	46.747	46.004	Data
45	43.481	6.522	57.000	46.748	46.004	Data
45	43.383	6.569	57.001	46.747	46.004	Data
46.5	44.802	6.670	56.989	46.749	46.011	Data
46.5	44.436	6.613	56.982	46.75	46.011	Data
48	45.035	6.561	57.037	46.745	46.000	Data
48	45.090	6.554	57.042	46.746	46.001	Data
49	45.035	6.561	57.037	46.745	46.000	Data
49	45.090	6.554	57.042	46.746	46.001	Data
50	45.035	6.561	57.037	46.745	46.000	Data
50	45.090	6.554	57.042	46.746	46.001	Data
51	45.035	6.561	57.037	46.745	46.000	Data
51	45.090	6.554	57.042	46.746	46.001	Data
52.5	44.802	6.670	56.989	46.749	46.011	Data
52.5	44.436	6.613	56.982	46.75	46.011	Data
54	44.561	6.563	57.025	46.743	45.999	Data
54	44.903	6.539	57.022	46.743	45.999	Data
55	44.903	6.539	57.022	46.743	45.999	Data
55	44.561	6.563	57.025	46.743	45.999	Data
56	44.903	6.539	57.022	46.743	45.999	Data
56	44.561	6.563	57.025	46.743	45.999	Data
57	44.903	6.539	57.022	46.743	45.999	Data
57	44.561	6.563	57.025	46.743	45.999	Data
58.5	44.802	6.670	56.989	46.749	46.011	Data
58.5	44.436	6.613	56.982	46.75	46.011	Data
60.5	45.468	6.596	57.011	46.742	46.032	Data
60.5	45.401	6.558	57.005	46.74	46.031	Data
61.75	45.468	6.596	57.011	46.742	46.032	Data
61.75	45.401	6.558	57.005	46.74	46.031	Data
63	45.468	6.596	57.011	46.742	46.032	Data
63	45.401	6.558	57.005	46.74	46.031	Data
64	45.468	6.596	57.011	46.742	46.032	Data
64	45.401	6.558	57.005	46.74	46.031	Data

Table 422: Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.819	6.651	56.985	46.749	46.499	Data
8	44.705	6.584	56.979	46.749	46.499	Data
30	44.819	6.651	56.985	46.749	46.499	Data
30	44.705	6.584	56.979	46.749	46.499	Data
46.5	44.819	6.651	56.985	46.749	46.499	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	44.705	6.584	56.979	46.749	46.499	Data
52.5	44.819	6.651	56.985	46.749	46.499	Data
52.5	44.705	6.584	56.979	46.749	46.499	Data
58.5	44.819	6.651	56.985	46.749	46.499	Data
58.5	44.705	6.584	56.979	46.749	46.499	Data

Table 423: Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.138	6.601	56.978	46.749	46.998	Data
8	45.078	6.600	56.982	46.75	46.998	Data
30	44.589	6.553	57.040	46.744	47.009	Data
30	45.247	6.552	57.012	46.74	47.023	Data
30	44.210	6.556	57.024	46.743	46.998	Data
30	44.825	6.546	57.025	46.742	46.997	Data
30	45.078	6.600	56.982	46.75	46.998	Data
30	44.665	6.555	57.046	46.745	47.009	Data
30	43.437	6.572	57.001	46.748	47.006	Data
30	45.138	6.601	56.978	46.749	46.998	Data
30	45.319	6.561	57.010	46.742	47.023	Data
30	43.534	6.576	56.998	46.748	47.007	Data
42	43.437	6.572	57.001	46.748	47.006	Data
42	43.534	6.576	56.998	46.748	47.007	Data
43	43.437	6.572	57.001	46.748	47.006	Data
43	43.534	6.576	56.998	46.748	47.007	Data
44	43.437	6.572	57.001	46.748	47.006	Data
44	43.534	6.576	56.998	46.748	47.007	Data
45	43.437	6.572	57.001	46.748	47.006	Data
45	43.534	6.576	56.998	46.748	47.007	Data
46.5	45.138	6.601	56.978	46.749	46.998	Data
46.5	45.078	6.600	56.982	46.75	46.998	Data
48	44.665	6.555	57.046	46.745	47.009	Data
48	44.589	6.553	57.040	46.744	47.009	Data
49	44.665	6.555	57.046	46.745	47.009	Data
49	44.589	6.553	57.040	46.744	47.009	Data
50	44.665	6.555	57.046	46.745	47.009	Data
50	44.589	6.553	57.040	46.744	47.009	Data
51	44.665	6.555	57.046	46.745	47.009	Data
51	44.589	6.553	57.040	46.744	47.009	Data
52.5	45.138	6.601	56.978	46.749	46.998	Data
52.5	45.078	6.600	56.982	46.75	46.998	Data
54	44.825	6.546	57.025	46.742	46.997	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	44.210	6.556	57.024	46.743	46.998	Data
55	44.825	6.546	57.025	46.742	46.997	Data
55	44.210	6.556	57.024	46.743	46.998	Data
56	44.825	6.546	57.025	46.742	46.997	Data
56	44.210	6.556	57.024	46.743	46.998	Data
57	44.825	6.546	57.025	46.742	46.997	Data
57	44.210	6.556	57.024	46.743	46.998	Data
58.5	45.138	6.601	56.978	46.749	46.998	Data
58.5	45.078	6.600	56.982	46.75	46.998	Data
60.5	45.247	6.552	57.012	46.74	47.023	Data
60.5	45.319	6.561	57.010	46.742	47.023	Data
61.75	45.247	6.552	57.012	46.74	47.023	Data
61.75	45.319	6.561	57.010	46.742	47.023	Data
63	45.247	6.552	57.012	46.74	47.023	Data
63	45.319	6.561	57.010	46.742	47.023	Data
64	45.247	6.552	57.012	46.74	47.023	Data
64	45.319	6.561	57.010	46.742	47.023	Data

Table 424: Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.155	6.627	56.984	46.75	47.492	Data
8	44.547	6.620	56.990	46.749	47.491	Data
30	45.155	6.627	56.984	46.75	47.492	Data
30	44.547	6.620	56.990	46.749	47.491	Data
46.5	45.155	6.627	56.984	46.75	47.492	Data
46.5	44.547	6.620	56.990	46.749	47.491	Data
52.5	45.155	6.627	56.984	46.75	47.492	Data
52.5	44.547	6.620	56.990	46.749	47.491	Data
58.5	45.155	6.627	56.984	46.75	47.492	Data
58.5	44.547	6.620	56.990	46.749	47.491	Data

Table 425: Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.102	6.634	56.982	46.75	48.013	Data
8	44.453	6.650	56.990	46.75	48.013	Data
30	44.857	6.570	57.040	46.745	48.006	Data
30	45.102	6.634	56.982	46.75	48.013	Data
30	45.023	6.562	57.046	46.745	48.006	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.453	6.650	56.990	46.75	48.013	Data
30	44.603	6.576	57.033	46.743	48.002	Data
30	45.099	6.541	57.009	46.741	48.003	Data
30	44.929	6.539	57.026	46.742	48.001	Data
30	43.266	6.579	57.000	46.748	48.005	Data
30	45.422	6.574	57.008	46.741	48.003	Data
30	43.640	6.581	56.996	46.745	48.005	Data
42	43.266	6.579	57.000	46.748	48.005	Data
42	43.640	6.581	56.996	46.745	48.005	Data
43	43.266	6.579	57.000	46.748	48.005	Data
43	43.640	6.581	56.996	46.745	48.005	Data
44	43.266	6.579	57.000	46.748	48.005	Data
44	43.640	6.581	56.996	46.745	48.005	Data
45	43.640	6.581	56.996	46.745	48.005	Data
45	43.266	6.579	57.000	46.748	48.005	Data
46.5	45.102	6.634	56.982	46.75	48.013	Data
46.5	44.453	6.650	56.990	46.75	48.013	Data
48	44.857	6.570	57.040	46.745	48.006	Data
48	45.023	6.562	57.046	46.745	48.006	Data
49	44.857	6.570	57.040	46.745	48.006	Data
49	45.023	6.562	57.046	46.745	48.006	Data
50	44.857	6.570	57.040	46.745	48.006	Data
50	45.023	6.562	57.046	46.745	48.006	Data
51	44.857	6.570	57.040	46.745	48.006	Data
51	45.023	6.562	57.046	46.745	48.006	Data
52.5	45.102	6.634	56.982	46.75	48.013	Data
52.5	44.453	6.650	56.990	46.75	48.013	Data
54	44.929	6.539	57.026	46.742	48.001	Data
54	44.603	6.576	57.033	46.743	48.002	Data
55	44.929	6.539	57.026	46.742	48.001	Data
55	44.603	6.576	57.033	46.743	48.002	Data
56	44.929	6.539	57.026	46.742	48.001	Data
56	44.603	6.576	57.033	46.743	48.002	Data
57	44.929	6.539	57.026	46.742	48.001	Data
57	44.603	6.576	57.033	46.743	48.002	Data
58.5	45.102	6.634	56.982	46.75	48.013	Data
58.5	44.453	6.650	56.990	46.75	48.013	Data
60.5	45.422	6.574	57.008	46.741	48.003	Data
60.5	45.099	6.541	57.009	46.741	48.003	Data
61.75	45.422	6.574	57.008	46.741	48.003	Data
61.75	45.099	6.541	57.009	46.741	48.003	Data
63	45.422	6.574	57.008	46.741	48.003	Data
63	45.099	6.541	57.009	46.741	48.003	Data
64	45.422	6.574	57.008	46.741	48.003	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	45.099	6.541	57.009	46.741	48.003	Data

Table 426: Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.594	6.622	56.989	46.75	49.013	Data
8	44.829	6.628	56.985	46.75	49.013	Data
30	44.839	6.573	57.045	46.744	48.994	Data
30	44.882	6.595	57.006	46.74	49.020	Data
30	44.479	6.567	57.018	46.743	49.005	Data
30	44.834	6.581	57.043	46.745	48.994	Data
30	44.594	6.622	56.989	46.75	49.013	Data
30	44.585	6.583	57.009	46.741	49.019	Data
30	43.426	6.581	57.003	46.747	48.999	Data
30	44.829	6.628	56.985	46.75	49.013	Data
30	43.411	6.573	57.003	46.747	49.000	Data
30	43.996	6.550	57.032	46.741	49.005	Data
42	43.426	6.581	57.003	46.747	48.999	Data
42	43.411	6.573	57.003	46.747	49.000	Data
43	43.426	6.581	57.003	46.747	48.999	Data
43	43.411	6.573	57.003	46.747	49.000	Data
44	43.426	6.581	57.003	46.747	48.999	Data
44	43.411	6.573	57.003	46.747	49.000	Data
45	43.426	6.581	57.003	46.747	48.999	Data
45	43.411	6.573	57.003	46.747	49.000	Data
46.5	44.594	6.622	56.989	46.75	49.013	Data
46.5	44.829	6.628	56.985	46.75	49.013	Data
48	44.834	6.581	57.043	46.745	48.994	Data
48	44.839	6.573	57.045	46.744	48.994	Data
49	44.834	6.581	57.043	46.745	48.994	Data
49	44.839	6.573	57.045	46.744	48.994	Data
50	44.834	6.581	57.043	46.745	48.994	Data
50	44.839	6.573	57.045	46.744	48.994	Data
51	44.834	6.581	57.043	46.745	48.994	Data
51	44.839	6.573	57.045	46.744	48.994	Data
52.5	44.594	6.622	56.989	46.75	49.013	Data
52.5	44.829	6.628	56.985	46.75	49.013	Data
54	44.479	6.567	57.018	46.743	49.005	Data
54	43.996	6.550	57.032	46.741	49.005	Data
55	44.479	6.567	57.018	46.743	49.005	Data
55	43.996	6.550	57.032	46.741	49.005	Data
56	44.479	6.567	57.018	46.743	49.005	Data

Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	43.996	6.550	57.032	46.741	49.005	Data
57	44.479	6.567	57.018	46.743	49.005	Data
57	43.996	6.550	57.032	46.741	49.005	Data
58.5	44.594	6.622	56.989	46.75	49.013	Data
58.5	44.829	6.628	56.985	46.75	49.013	Data
60.5	44.585	6.583	57.009	46.741	49.019	Data
60.5	44.882	6.595	57.006	46.74	49.020	Data
61.75	44.585	6.583	57.009	46.741	49.019	Data
61.75	44.882	6.595	57.006	46.74	49.020	Data
63	44.585	6.583	57.009	46.741	49.019	Data
63	44.882	6.595	57.006	46.74	49.020	Data
64	44.585	6.583	57.009	46.741	49.019	Data
64	44.882	6.595	57.006	46.74	49.020	Data

Table 427: Vertical sweep VG at 46.5 (in), q=45 RO-tip VG AoA 4 VG at span y=46.5 (in)

D.37. Vertical VG vortex sweep at y=52.5 (in), q=45, α_{VG}=4, α_W=7, RO-tip

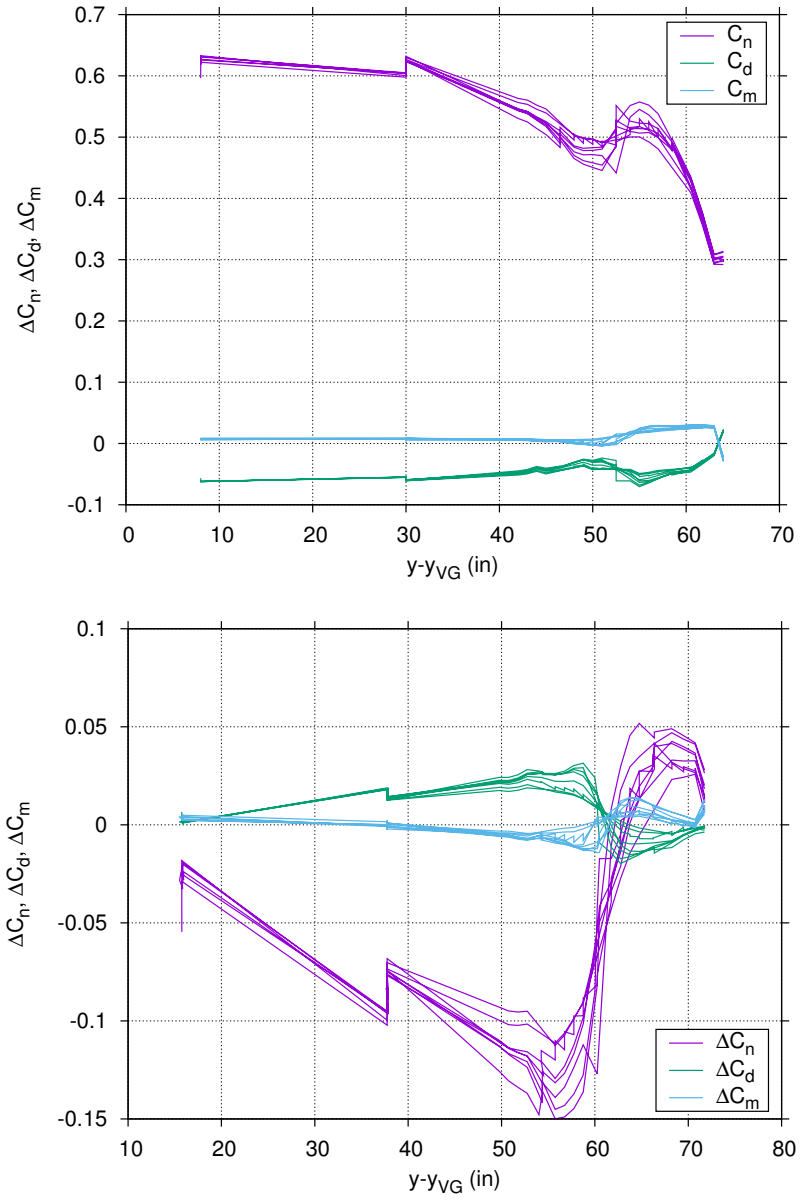

Figure 90. Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.231	6.568	57.017	52.751	41.999	Data
30	45.288	6.548	57.048	52.75	42.018	Data
30	45.364	6.581	57.051	52.75	42.018	Data
30	43.958	6.556	57.004	52.746	42.005	Data
30	45.813	6.578	57.004	52.755	41.958	Data
30	45.453	6.570	57.002	52.757	41.972	Data
30	44.682	6.572	57.019	52.75	42.002	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.061	6.563	57.000	52.746	42.006	Data
42	43.958	6.556	57.004	52.746	42.005	Data
42	44.061	6.563	57.000	52.746	42.006	Data
43	43.958	6.556	57.004	52.746	42.005	Data
43	44.061	6.563	57.000	52.746	42.006	Data
44	43.958	6.556	57.004	52.746	42.005	Data
44	44.061	6.563	57.000	52.746	42.006	Data
45	43.958	6.556	57.004	52.746	42.005	Data
45	44.061	6.563	57.000	52.746	42.006	Data
48	45.288	6.548	57.048	52.75	42.018	Data
48	45.364	6.581	57.051	52.75	42.018	Data
49	45.288	6.548	57.048	52.75	42.018	Data
49	45.364	6.581	57.051	52.75	42.018	Data
50	45.364	6.581	57.051	52.75	42.018	Data
50	45.288	6.548	57.048	52.75	42.018	Data
51	45.364	6.581	57.051	52.75	42.018	Data
51	45.288	6.548	57.048	52.75	42.018	Data
54	44.682	6.572	57.019	52.75	42.002	Data
54	45.231	6.568	57.017	52.751	41.999	Data
55	44.682	6.572	57.019	52.75	42.002	Data
55	45.231	6.568	57.017	52.751	41.999	Data
56	44.682	6.572	57.019	52.75	42.002	Data
56	45.231	6.568	57.017	52.751	41.999	Data
57	44.682	6.572	57.019	52.75	42.002	Data
57	45.231	6.568	57.017	52.751	41.999	Data
60.5	45.813	6.578	57.004	52.755	41.958	Data
60.5	45.453	6.570	57.002	52.757	41.972	Data
61.75	45.813	6.578	57.004	52.755	41.958	Data
61.75	45.453	6.570	57.002	52.757	41.972	Data
63	45.813	6.578	57.004	52.755	41.958	Data
63	45.453	6.570	57.002	52.757	41.972	Data
64	45.813	6.578	57.004	52.755	41.958	Data
64	45.453	6.570	57.002	52.757	41.972	Data

Table 428: Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.535	6.550	57.047	52.75	42.994	Data
30	45.768	6.616	57.050	52.752	42.994	Data
30	45.244	6.530	57.017	52.75	42.992	Data
30	44.384	6.551	57.001	52.747	43.004	Data
30	45.622	6.545	57.006	52.755	43.017	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.680	6.601	57.004	52.754	43.017	Data
30	45.082	6.574	57.014	52.75	42.992	Data
30	43.870	6.551	56.997	52.746	43.004	Data
42	44.384	6.551	57.001	52.747	43.004	Data
42	43.870	6.551	56.997	52.746	43.004	Data
43	44.384	6.551	57.001	52.747	43.004	Data
43	43.870	6.551	56.997	52.746	43.004	Data
44	44.384	6.551	57.001	52.747	43.004	Data
44	43.870	6.551	56.997	52.746	43.004	Data
45	44.384	6.551	57.001	52.747	43.004	Data
45	43.870	6.551	56.997	52.746	43.004	Data
48	45.535	6.550	57.047	52.75	42.994	Data
48	45.768	6.616	57.050	52.752	42.994	Data
49	45.535	6.550	57.047	52.75	42.994	Data
49	45.768	6.616	57.050	52.752	42.994	Data
50	45.535	6.550	57.047	52.75	42.994	Data
50	45.768	6.616	57.050	52.752	42.994	Data
51	45.535	6.550	57.047	52.75	42.994	Data
51	45.768	6.616	57.050	52.752	42.994	Data
54	45.082	6.574	57.014	52.75	42.992	Data
54	45.244	6.530	57.017	52.75	42.992	Data
55	45.082	6.574	57.014	52.75	42.992	Data
55	45.244	6.530	57.017	52.75	42.992	Data
56	45.082	6.574	57.014	52.75	42.992	Data
56	45.244	6.530	57.017	52.75	42.992	Data
57	45.082	6.574	57.014	52.75	42.992	Data
57	45.244	6.530	57.017	52.75	42.992	Data
60.5	45.680	6.601	57.004	52.754	43.017	Data
60.5	45.622	6.545	57.006	52.755	43.017	Data
61.75	45.622	6.545	57.006	52.755	43.017	Data
61.75	45.680	6.601	57.004	52.754	43.017	Data
63	45.622	6.545	57.006	52.755	43.017	Data
63	45.680	6.601	57.004	52.754	43.017	Data
64	45.680	6.601	57.004	52.754	43.017	Data
64	45.622	6.545	57.006	52.755	43.017	Data

Table 429: Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.311	6.605	56.971	52.75	44.015	Data
8	45.626	6.593	56.973	52.747	44.015	Data
8	44.823	6.601	56.982	52.751	44.004	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.448	6.614	56.985	52.75	44.003	Data
30	45.359	6.585	56.989	52.741	43.973	Data
30	44.957	6.542	56.988	52.744	43.993	Data
30	45.331	6.520	56.986	52.746	43.993	Data
30	45.507	6.540	57.043	52.751	44.007	Data
30	44.823	6.601	56.982	52.751	44.004	Data
30	45.311	6.605	56.971	52.75	44.015	Data
30	44.864	6.578	57.015	52.751	44.004	Data
30	43.961	6.572	57.000	52.748	44.006	Data
30	45.448	6.614	56.985	52.75	44.003	Data
30	45.064	6.588	56.985	52.741	43.973	Data
30	45.899	6.571	57.008	52.754	44.037	Data
30	45.440	6.554	57.005	52.745	43.998	Data
30	45.366	6.544	57.009	52.754	44.037	Data
30	45.262	6.621	56.978	52.752	43.998	Data
30	45.405	6.569	57.043	52.752	44.008	Data
30	45.486	6.539	57.007	52.746	43.998	Data
30	43.542	6.577	57.002	52.746	44.006	Data
30	45.626	6.593	56.973	52.747	44.015	Data
30	44.483	6.560	57.024	52.75	44.004	Data
30	45.601	6.621	56.986	52.751	43.998	Data
42	43.542	6.577	57.002	52.746	44.006	Data
42	43.961	6.572	57.000	52.748	44.006	Data
42	45.486	6.539	57.007	52.746	43.998	Data
42	45.440	6.554	57.005	52.745	43.998	Data
43	43.542	6.577	57.002	52.746	44.006	Data
43	43.961	6.572	57.000	52.748	44.006	Data
43	45.486	6.539	57.007	52.746	43.998	Data
43	45.440	6.554	57.005	52.745	43.998	Data
44	43.961	6.572	57.000	52.748	44.006	Data
44	43.542	6.577	57.002	52.746	44.006	Data
44	45.486	6.539	57.007	52.746	43.998	Data
44	45.440	6.554	57.005	52.745	43.998	Data
45	43.961	6.572	57.000	52.748	44.006	Data
45	43.542	6.577	57.002	52.746	44.006	Data
45	45.486	6.539	57.007	52.746	43.998	Data
45	45.440	6.554	57.005	52.745	43.998	Data
46.5	44.823	6.601	56.982	52.751	44.004	Data
46.5	45.311	6.605	56.971	52.75	44.015	Data
46.5	45.626	6.593	56.973	52.747	44.015	Data
46.5	45.448	6.614	56.985	52.75	44.003	Data
48	45.507	6.540	57.043	52.751	44.007	Data
48	45.359	6.585	56.989	52.741	43.973	Data
48	45.064	6.588	56.985	52.741	43.973	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	45.405	6.569	57.043	52.752	44.008	Data
49	45.507	6.540	57.043	52.751	44.007	Data
49	45.359	6.585	56.989	52.741	43.973	Data
49	45.064	6.588	56.985	52.741	43.973	Data
49	45.405	6.569	57.043	52.752	44.008	Data
50	45.507	6.540	57.043	52.751	44.007	Data
50	45.359	6.585	56.989	52.741	43.973	Data
50	45.064	6.588	56.985	52.741	43.973	Data
50	45.405	6.569	57.043	52.752	44.008	Data
51	45.507	6.540	57.043	52.751	44.007	Data
51	45.359	6.585	56.989	52.741	43.973	Data
51	45.064	6.588	56.985	52.741	43.973	Data
51	45.405	6.569	57.043	52.752	44.008	Data
52.5	45.311	6.605	56.971	52.75	44.015	Data
52.5	45.626	6.593	56.973	52.747	44.015	Data
52.5	44.823	6.601	56.982	52.751	44.004	Data
52.5	45.448	6.614	56.985	52.75	44.003	Data
54	45.331	6.520	56.986	52.746	43.993	Data
54	44.957	6.542	56.988	52.744	43.993	Data
54	44.864	6.578	57.015	52.751	44.004	Data
54	44.483	6.560	57.024	52.75	44.004	Data
55	45.331	6.520	56.986	52.746	43.993	Data
55	44.957	6.542	56.988	52.744	43.993	Data
55	44.864	6.578	57.015	52.751	44.004	Data
55	44.483	6.560	57.024	52.75	44.004	Data
56	45.331	6.520	56.986	52.746	43.993	Data
56	44.957	6.542	56.988	52.744	43.993	Data
56	44.864	6.578	57.015	52.751	44.004	Data
56	44.483	6.560	57.024	52.75	44.004	Data
57	45.331	6.520	56.986	52.746	43.993	Data
57	44.957	6.542	56.988	52.744	43.993	Data
57	44.864	6.578	57.015	52.751	44.004	Data
57	44.483	6.560	57.024	52.75	44.004	Data
58.5	45.311	6.605	56.971	52.75	44.015	Data
58.5	45.626	6.593	56.973	52.747	44.015	Data
58.5	44.823	6.601	56.982	52.751	44.004	Data
58.5	45.448	6.614	56.985	52.75	44.003	Data
60.5	45.601	6.621	56.986	52.751	43.998	Data
60.5	45.366	6.544	57.009	52.754	44.037	Data
60.5	45.262	6.621	56.978	52.752	43.998	Data
60.5	45.899	6.571	57.008	52.754	44.037	Data
61.75	45.601	6.621	56.986	52.751	43.998	Data
61.75	45.366	6.544	57.009	52.754	44.037	Data
61.75	45.262	6.621	56.978	52.752	43.998	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	45.899	6.571	57.008	52.754	44.037	Data
63	45.601	6.621	56.986	52.751	43.998	Data
63	45.899	6.571	57.008	52.754	44.037	Data
63	45.262	6.621	56.978	52.752	43.998	Data
63	45.366	6.544	57.009	52.754	44.037	Data
64	45.899	6.571	57.008	52.754	44.037	Data
64	45.262	6.621	56.978	52.752	43.998	Data
64	45.601	6.621	56.986	52.751	43.998	Data
64	45.366	6.544	57.009	52.754	44.037	Data

Table 430: Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.122	6.642	56.978	52.75	45.012	Data
8	45.181	6.622	56.979	52.75	45.012	Data
30	45.399	6.570	57.047	52.75	45.000	Data
30	45.181	6.622	56.979	52.75	45.012	Data
30	45.190	6.557	57.046	52.75	45.000	Data
30	45.741	6.543	57.011	52.755	45.042	Data
30	45.809	6.572	56.996	52.756	45.042	Data
30	45.122	6.642	56.978	52.75	45.012	Data
30	45.043	6.586	57.014	52.75	44.993	Data
30	44.770	6.523	57.019	52.75	44.993	Data
30	44.437	6.567	56.998	52.746	44.993	Data
30	43.888	6.590	57.003	52.746	44.993	Data
42	44.437	6.567	56.998	52.746	44.993	Data
42	43.888	6.590	57.003	52.746	44.993	Data
43	44.437	6.567	56.998	52.746	44.993	Data
43	43.888	6.590	57.003	52.746	44.993	Data
44	44.437	6.567	56.998	52.746	44.993	Data
44	43.888	6.590	57.003	52.746	44.993	Data
45	44.437	6.567	56.998	52.746	44.993	Data
45	43.888	6.590	57.003	52.746	44.993	Data
46.5	45.181	6.622	56.979	52.75	45.012	Data
46.5	45.122	6.642	56.978	52.75	45.012	Data
48	45.399	6.570	57.047	52.75	45.000	Data
48	45.190	6.557	57.046	52.75	45.000	Data
49	45.399	6.570	57.047	52.75	45.000	Data
49	45.190	6.557	57.046	52.75	45.000	Data
50	45.399	6.570	57.047	52.75	45.000	Data
50	45.190	6.557	57.046	52.75	45.000	Data
51	45.399	6.570	57.047	52.75	45.000	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	45.190	6.557	57.046	52.75	45.000	Data
52.5	45.181	6.622	56.979	52.75	45.012	Data
52.5	45.122	6.642	56.978	52.75	45.012	Data
54	44.770	6.523	57.019	52.75	44.993	Data
54	45.043	6.586	57.014	52.75	44.993	Data
55	44.770	6.523	57.019	52.75	44.993	Data
55	45.043	6.586	57.014	52.75	44.993	Data
56	44.770	6.523	57.019	52.75	44.993	Data
56	45.043	6.586	57.014	52.75	44.993	Data
57	44.770	6.523	57.019	52.75	44.993	Data
57	45.043	6.586	57.014	52.75	44.993	Data
58.5	45.122	6.642	56.978	52.75	45.012	Data
58.5	45.181	6.622	56.979	52.75	45.012	Data
60.5	45.741	6.543	57.011	52.755	45.042	Data
60.5	45.809	6.572	56.996	52.756	45.042	Data
61.75	45.741	6.543	57.011	52.755	45.042	Data
61.75	45.809	6.572	56.996	52.756	45.042	Data
63	45.809	6.572	56.996	52.756	45.042	Data
63	45.741	6.543	57.011	52.755	45.042	Data
64	45.809	6.572	56.996	52.756	45.042	Data
64	45.741	6.543	57.011	52.755	45.042	Data

Table 431: Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.883	6.639	56.981	52.751	46.001	Data
8	44.921	6.620	56.978	52.751	46.000	Data
30	45.555	6.584	57.005	52.756	46.016	Data
30	45.035	6.576	57.044	52.751	46.007	Data
30	44.921	6.620	56.978	52.751	46.000	Data
30	44.839	6.544	57.045	52.751	46.008	Data
30	44.746	6.536	57.018	52.75	46.034	Data
30	44.883	6.639	56.981	52.751	46.001	Data
30	43.765	6.575	56.994	52.747	46.005	Data
30	45.137	6.555	57.026	52.749	46.034	Data
30	45.482	6.570	57.003	52.755	46.016	Data
30	43.835	6.539	56.998	52.747	46.005	Data
42	43.765	6.575	56.994	52.747	46.005	Data
42	43.835	6.539	56.998	52.747	46.005	Data
43	43.835	6.539	56.998	52.747	46.005	Data
43	43.765	6.575	56.994	52.747	46.005	Data
44	43.835	6.539	56.998	52.747	46.005	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	43.765	6.575	56.994	52.747	46.005	Data
45	43.835	6.539	56.998	52.747	46.005	Data
45	43.765	6.575	56.994	52.747	46.005	Data
46.5	44.883	6.639	56.981	52.751	46.001	Data
46.5	44.921	6.620	56.978	52.751	46.000	Data
48	45.035	6.576	57.044	52.751	46.007	Data
48	44.839	6.544	57.045	52.751	46.008	Data
49	45.035	6.576	57.044	52.751	46.007	Data
49	44.839	6.544	57.045	52.751	46.008	Data
50	45.035	6.576	57.044	52.751	46.007	Data
50	44.839	6.544	57.045	52.751	46.008	Data
51	45.035	6.576	57.044	52.751	46.007	Data
51	44.839	6.544	57.045	52.751	46.008	Data
52.5	44.883	6.639	56.981	52.751	46.001	Data
52.5	44.921	6.620	56.978	52.751	46.000	Data
54	44.746	6.536	57.018	52.75	46.034	Data
54	45.137	6.555	57.026	52.749	46.034	Data
55	44.746	6.536	57.018	52.75	46.034	Data
55	45.137	6.555	57.026	52.749	46.034	Data
56	44.746	6.536	57.018	52.75	46.034	Data
56	45.137	6.555	57.026	52.749	46.034	Data
57	44.746	6.536	57.018	52.75	46.034	Data
57	45.137	6.555	57.026	52.749	46.034	Data
58.5	44.883	6.639	56.981	52.751	46.001	Data
58.5	44.921	6.620	56.978	52.751	46.000	Data
60.5	45.555	6.584	57.005	52.756	46.016	Data
60.5	45.482	6.570	57.003	52.755	46.016	Data
61.75	45.482	6.570	57.003	52.755	46.016	Data
61.75	45.555	6.584	57.005	52.756	46.016	Data
63	45.482	6.570	57.003	52.755	46.016	Data
63	45.555	6.584	57.005	52.756	46.016	Data
64	45.482	6.570	57.003	52.755	46.016	Data
64	45.555	6.584	57.005	52.756	46.016	Data

Table 432: Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.621	6.626	56.982	52.751	46.494	Data
8	44.916	6.623	56.978	52.751	46.494	Data
30	44.916	6.623	56.978	52.751	46.494	Data
30	44.621	6.626	56.982	52.751	46.494	Data
46.5	44.621	6.626	56.982	52.751	46.494	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	44.916	6.623	56.978	52.751	46.494	Data
52.5	44.621	6.626	56.982	52.751	46.494	Data
52.5	44.916	6.623	56.978	52.751	46.494	Data
58.5	44.621	6.626	56.982	52.751	46.494	Data
58.5	44.916	6.623	56.978	52.751	46.494	Data

Table 433: Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.711	6.648	56.978	52.751	47.005	Data
8	45.316	6.593	56.982	52.751	47.004	Data
30	45.081	6.550	57.045	52.749	46.999	Data
30	45.176	6.550	57.043	52.751	46.999	Data
30	43.432	6.561	56.998	52.748	47.005	Data
30	44.114	6.552	56.999	52.748	47.004	Data
30	44.711	6.648	56.978	52.751	47.005	Data
30	45.316	6.593	56.982	52.751	47.004	Data
30	45.509	6.596	57.004	52.756	46.993	Data
30	44.952	6.576	57.017	52.749	46.998	Data
30	45.259	6.579	57.008	52.754	46.993	Data
30	44.195	6.544	57.017	52.749	46.998	Data
42	43.432	6.561	56.998	52.748	47.005	Data
42	44.114	6.552	56.999	52.748	47.004	Data
43	43.432	6.561	56.998	52.748	47.005	Data
43	44.114	6.552	56.999	52.748	47.004	Data
44	43.432	6.561	56.998	52.748	47.005	Data
44	44.114	6.552	56.999	52.748	47.004	Data
45	43.432	6.561	56.998	52.748	47.005	Data
45	44.114	6.552	56.999	52.748	47.004	Data
46.5	44.711	6.648	56.978	52.751	47.005	Data
46.5	45.316	6.593	56.982	52.751	47.004	Data
48	45.081	6.550	57.045	52.749	46.999	Data
48	45.176	6.550	57.043	52.751	46.999	Data
49	45.081	6.550	57.045	52.749	46.999	Data
49	45.176	6.550	57.043	52.751	46.999	Data
50	45.081	6.550	57.045	52.749	46.999	Data
50	45.176	6.550	57.043	52.751	46.999	Data
51	45.081	6.550	57.045	52.749	46.999	Data
51	45.176	6.550	57.043	52.751	46.999	Data
52.5	44.711	6.648	56.978	52.751	47.005	Data
52.5	45.316	6.593	56.982	52.751	47.004	Data
54	44.952	6.576	57.017	52.749	46.998	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	44.195	6.544	57.017	52.749	46.998	Data
55	44.952	6.576	57.017	52.749	46.998	Data
55	44.195	6.544	57.017	52.749	46.998	Data
56	44.952	6.576	57.017	52.749	46.998	Data
56	44.195	6.544	57.017	52.749	46.998	Data
57	44.952	6.576	57.017	52.749	46.998	Data
57	44.195	6.544	57.017	52.749	46.998	Data
58.5	44.711	6.648	56.978	52.751	47.005	Data
58.5	45.316	6.593	56.982	52.751	47.004	Data
60.5	45.259	6.579	57.008	52.754	46.993	Data
60.5	45.509	6.596	57.004	52.756	46.993	Data
61.75	45.259	6.579	57.008	52.754	46.993	Data
61.75	45.509	6.596	57.004	52.756	46.993	Data
63	45.259	6.579	57.008	52.754	46.993	Data
63	45.509	6.596	57.004	52.756	46.993	Data
64	45.509	6.596	57.004	52.756	46.993	Data
64	45.259	6.579	57.008	52.754	46.993	Data

Table 434: Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.954	6.603	56.977	52.749	47.492	Data
8	44.566	6.598	56.979	52.749	47.491	Data
30	44.954	6.603	56.977	52.749	47.492	Data
30	44.566	6.598	56.979	52.749	47.491	Data
46.5	44.954	6.603	56.977	52.749	47.492	Data
46.5	44.566	6.598	56.979	52.749	47.491	Data
52.5	44.954	6.603	56.977	52.749	47.492	Data
52.5	44.566	6.598	56.979	52.749	47.491	Data
58.5	44.954	6.603	56.977	52.749	47.492	Data
58.5	44.566	6.598	56.979	52.749	47.491	Data

Table 435: Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.102	6.659	56.976	52.75	47.996	Data
8	44.933	6.630	56.975	52.751	47.996	Data
30	45.102	6.659	56.976	52.75	47.996	Data
30	45.142	6.588	57.005	52.755	48.005	Data
30	44.933	6.630	56.975	52.751	47.996	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.218	6.582	57.050	52.751	48.000	Data
30	44.888	6.558	57.042	52.751	48.000	Data
30	43.643	6.594	57.001	52.748	48.010	Data
30	44.724	6.545	57.022	52.75	48.010	Data
30	45.561	6.592	57.003	52.754	48.005	Data
30	44.493	6.622	57.019	52.749	48.010	Data
30	44.097	6.586	57.002	52.746	48.010	Data
42	43.643	6.594	57.001	52.748	48.010	Data
42	44.097	6.586	57.002	52.746	48.010	Data
43	43.643	6.594	57.001	52.748	48.010	Data
43	44.097	6.586	57.002	52.746	48.010	Data
44	43.643	6.594	57.001	52.748	48.010	Data
44	44.097	6.586	57.002	52.746	48.010	Data
45	43.643	6.594	57.001	52.748	48.010	Data
45	44.097	6.586	57.002	52.746	48.010	Data
46.5	44.933	6.630	56.975	52.751	47.996	Data
46.5	45.102	6.659	56.976	52.75	47.996	Data
48	45.218	6.582	57.050	52.751	48.000	Data
48	44.888	6.558	57.042	52.751	48.000	Data
49	45.218	6.582	57.050	52.751	48.000	Data
49	44.888	6.558	57.042	52.751	48.000	Data
50	45.218	6.582	57.050	52.751	48.000	Data
50	44.888	6.558	57.042	52.751	48.000	Data
51	45.218	6.582	57.050	52.751	48.000	Data
51	44.888	6.558	57.042	52.751	48.000	Data
52.5	44.933	6.630	56.975	52.751	47.996	Data
52.5	45.102	6.659	56.976	52.75	47.996	Data
54	44.493	6.622	57.019	52.749	48.010	Data
54	44.724	6.545	57.022	52.75	48.010	Data
55	44.493	6.622	57.019	52.749	48.010	Data
55	44.724	6.545	57.022	52.75	48.010	Data
56	44.493	6.622	57.019	52.749	48.010	Data
56	44.724	6.545	57.022	52.75	48.010	Data
57	44.493	6.622	57.019	52.749	48.010	Data
57	44.724	6.545	57.022	52.75	48.010	Data
58.5	44.933	6.630	56.975	52.751	47.996	Data
58.5	45.102	6.659	56.976	52.75	47.996	Data
60.5	45.142	6.588	57.005	52.755	48.005	Data
60.5	45.561	6.592	57.003	52.754	48.005	Data
61.75	45.142	6.588	57.005	52.755	48.005	Data
61.75	45.561	6.592	57.003	52.754	48.005	Data
63	45.142	6.588	57.005	52.755	48.005	Data
63	45.561	6.592	57.003	52.754	48.005	Data
64	45.561	6.592	57.003	52.754	48.005	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	45.142	6.588	57.005	52.755	48.005	Data

Table 436: Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.904	6.579	56.979	52.749	48.987	Data
8	44.927	6.651	56.972	52.748	48.987	Data
30	44.954	6.589	57.041	52.751	48.996	Data
30	44.707	6.574	57.021	52.749	49.005	Data
30	44.927	6.651	56.972	52.748	48.987	Data
30	45.822	6.593	56.998	52.755	49.019	Data
30	45.550	6.537	57.003	52.755	49.020	Data
30	44.904	6.579	56.979	52.749	48.987	Data
30	45.208	6.561	57.040	52.75	48.995	Data
30	44.973	6.576	57.030	52.747	49.004	Data
30	43.663	6.563	57.000	52.749	49.001	Data
30	44.061	6.571	56.998	52.748	49.001	Data
42	44.061	6.571	56.998	52.748	49.001	Data
42	43.663	6.563	57.000	52.749	49.001	Data
43	44.061	6.571	56.998	52.748	49.001	Data
43	43.663	6.563	57.000	52.749	49.001	Data
44	44.061	6.571	56.998	52.748	49.001	Data
44	43.663	6.563	57.000	52.749	49.001	Data
45	44.061	6.571	56.998	52.748	49.001	Data
45	43.663	6.563	57.000	52.749	49.001	Data
46.5	44.927	6.651	56.972	52.748	48.987	Data
46.5	44.904	6.579	56.979	52.749	48.987	Data
48	45.208	6.561	57.040	52.75	48.995	Data
48	44.954	6.589	57.041	52.751	48.996	Data
49	45.208	6.561	57.040	52.75	48.995	Data
49	44.954	6.589	57.041	52.751	48.996	Data
50	45.208	6.561	57.040	52.75	48.995	Data
50	44.954	6.589	57.041	52.751	48.996	Data
51	45.208	6.561	57.040	52.75	48.995	Data
51	44.954	6.589	57.041	52.751	48.996	Data
52.5	44.927	6.651	56.972	52.748	48.987	Data
52.5	44.904	6.579	56.979	52.749	48.987	Data
54	44.707	6.574	57.021	52.749	49.005	Data
54	44.973	6.576	57.030	52.747	49.004	Data
55	44.707	6.574	57.021	52.749	49.005	Data
55	44.973	6.576	57.030	52.747	49.004	Data
56	44.707	6.574	57.021	52.749	49.005	Data

Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	44.973	6.576	57.030	52.747	49.004	Data
57	44.707	6.574	57.021	52.749	49.005	Data
57	44.973	6.576	57.030	52.747	49.004	Data
58.5	44.927	6.651	56.972	52.748	48.987	Data
58.5	44.904	6.579	56.979	52.749	48.987	Data
60.5	45.822	6.593	56.998	52.755	49.019	Data
60.5	45.550	6.537	57.003	52.755	49.020	Data
61.75	45.822	6.593	56.998	52.755	49.019	Data
61.75	45.550	6.537	57.003	52.755	49.020	Data
63	45.550	6.537	57.003	52.755	49.020	Data
63	45.822	6.593	56.998	52.755	49.019	Data
64	45.550	6.537	57.003	52.755	49.020	Data
64	45.822	6.593	56.998	52.755	49.019	Data

Table 437: Vertical sweep VG at 52.5 (in), q=45 RO-tip VG AoA 4 VG at span y=52.5 (in)

D.38. Vertical VG vortex sweep at y=58.5 (in), q=45, α_{VG}=4, α_W=7, RO-tip

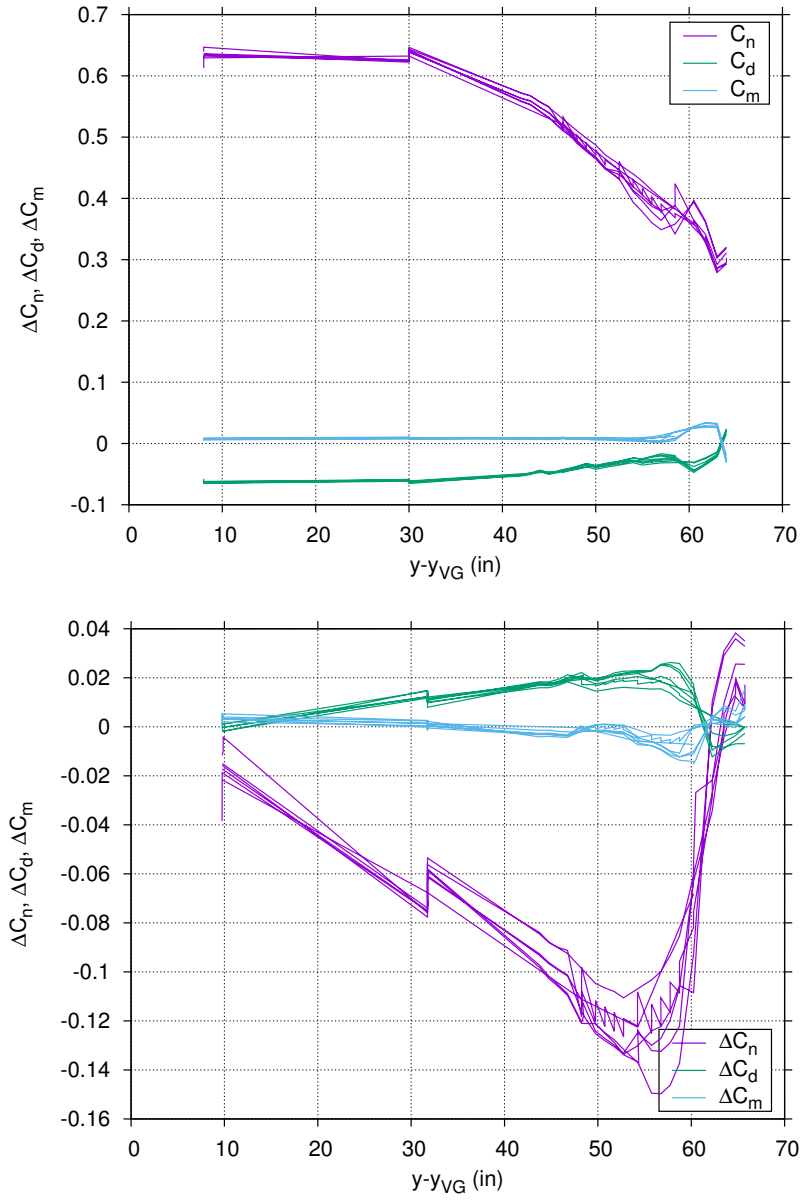

Figure 91. Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.330	6.576	57.039	58.746	43.003	Data
30	45.321	6.600	57.048	58.746	43.003	Data
30	45.179	6.559	57.013	58.75	43.007	Data
30	46.089	6.583	57.009	58.748	43.018	Data
30	45.117	6.553	57.014	58.75	43.008	Data
30	45.905	6.593	57.009	58.75	43.018	Data
30	44.384	6.584	56.996	58.756	43.009	Data

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.637	6.570	56.996	58.757	43.009	Data
42	44.384	6.584	56.996	58.756	43.009	Data
42	44.637	6.570	56.996	58.757	43.009	Data
43	44.384	6.584	56.996	58.756	43.009	Data
43	44.637	6.570	56.996	58.757	43.009	Data
44	44.637	6.570	56.996	58.757	43.009	Data
44	44.384	6.584	56.996	58.756	43.009	Data
45	44.637	6.570	56.996	58.757	43.009	Data
45	44.384	6.584	56.996	58.756	43.009	Data
48	45.330	6.576	57.039	58.746	43.003	Data
48	45.321	6.600	57.048	58.746	43.003	Data
49	45.330	6.576	57.039	58.746	43.003	Data
49	45.321	6.600	57.048	58.746	43.003	Data
50	45.330	6.576	57.039	58.746	43.003	Data
50	45.321	6.600	57.048	58.746	43.003	Data
51	45.330	6.576	57.039	58.746	43.003	Data
51	45.321	6.600	57.048	58.746	43.003	Data
54	45.117	6.553	57.014	58.75	43.008	Data
54	45.179	6.559	57.013	58.75	43.007	Data
55	45.117	6.553	57.014	58.75	43.008	Data
55	45.179	6.559	57.013	58.75	43.007	Data
56	45.117	6.553	57.014	58.75	43.008	Data
56	45.179	6.559	57.013	58.75	43.007	Data
57	45.117	6.553	57.014	58.75	43.008	Data
57	45.179	6.559	57.013	58.75	43.007	Data
60.5	45.905	6.593	57.009	58.75	43.018	Data
60.5	46.089	6.583	57.009	58.748	43.018	Data
61.75	45.905	6.593	57.009	58.75	43.018	Data
61.75	46.089	6.583	57.009	58.748	43.018	Data
63	45.905	6.593	57.009	58.75	43.018	Data
63	46.089	6.583	57.009	58.748	43.018	Data
64	45.905	6.593	57.009	58.75	43.018	Data
64	46.089	6.583	57.009	58.748	43.018	Data

Table 438: Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.816	6.584	56.979	58.755	44.014	Data
8	45.808	6.617	56.975	58.757	44.014	Data
8	45.460	6.613	56.982	58.742	44.004	Data
8	45.308	6.624	56.980	58.741	44.004	Data
30	45.460	6.613	56.982	58.742	44.004	Data

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.928	6.593	56.993	58.749	43.971	Data
30	45.534	6.545	57.039	58.746	43.992	Data
30	45.541	6.542	56.996	58.749	43.991	Data
30	45.219	6.580	57.020	58.75	44.009	Data
30	45.308	6.624	56.980	58.741	44.004	Data
30	45.199	6.550	57.020	58.751	44.009	Data
30	45.996	6.521	57.005	58.756	43.998	Data
30	45.816	6.584	56.979	58.755	44.014	Data
30	44.462	6.577	56.994	58.757	44.007	Data
30	44.841	6.578	56.989	58.75	43.991	Data
30	45.337	6.541	57.045	58.746	43.992	Data
30	44.882	6.565	56.990	58.749	43.971	Data
30	44.912	6.535	56.996	58.757	44.007	Data
30	45.819	6.546	57.000	58.755	43.998	Data
30	45.808	6.617	56.975	58.757	44.014	Data
30	45.573	6.597	56.983	58.748	44.000	Data
30	45.971	6.559	57.002	58.75	44.019	Data
30	45.003	6.632	56.985	58.749	44.000	Data
30	45.620	6.585	57.005	58.749	44.019	Data
42	44.912	6.535	56.996	58.757	44.007	Data
42	45.996	6.521	57.005	58.756	43.998	Data
42	45.819	6.546	57.000	58.755	43.998	Data
42	44.462	6.577	56.994	58.757	44.007	Data
43	44.912	6.535	56.996	58.757	44.007	Data
43	45.996	6.521	57.005	58.756	43.998	Data
43	45.819	6.546	57.000	58.755	43.998	Data
43	44.462	6.577	56.994	58.757	44.007	Data
44	44.912	6.535	56.996	58.757	44.007	Data
44	45.996	6.521	57.005	58.756	43.998	Data
44	45.819	6.546	57.000	58.755	43.998	Data
44	44.462	6.577	56.994	58.757	44.007	Data
45	44.912	6.535	56.996	58.757	44.007	Data
45	45.996	6.521	57.005	58.756	43.998	Data
45	45.819	6.546	57.000	58.755	43.998	Data
45	44.462	6.577	56.994	58.757	44.007	Data
46.5	45.460	6.613	56.982	58.742	44.004	Data
46.5	45.808	6.617	56.975	58.757	44.014	Data
46.5	45.816	6.584	56.979	58.755	44.014	Data
46.5	45.308	6.624	56.980	58.741	44.004	Data
48	44.928	6.593	56.993	58.749	43.971	Data
48	45.534	6.545	57.039	58.746	43.992	Data
48	44.882	6.565	56.990	58.749	43.971	Data
48	45.337	6.541	57.045	58.746	43.992	Data
49	44.928	6.593	56.993	58.749	43.971	Data

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
49	45.534	6.545	57.039	58.746	43.992	Data
49	44.882	6.565	56.990	58.749	43.971	Data
49	45.337	6.541	57.045	58.746	43.992	Data
50	44.928	6.593	56.993	58.749	43.971	Data
50	45.534	6.545	57.039	58.746	43.992	Data
50	44.882	6.565	56.990	58.749	43.971	Data
50	45.337	6.541	57.045	58.746	43.992	Data
51	44.928	6.593	56.993	58.749	43.971	Data
51	45.534	6.545	57.039	58.746	43.992	Data
51	44.882	6.565	56.990	58.749	43.971	Data
51	45.337	6.541	57.045	58.746	43.992	Data
52.5	45.460	6.613	56.982	58.742	44.004	Data
52.5	45.808	6.617	56.975	58.757	44.014	Data
52.5	45.308	6.624	56.980	58.741	44.004	Data
52.5	45.816	6.584	56.979	58.755	44.014	Data
54	45.541	6.542	56.996	58.749	43.991	Data
54	44.841	6.578	56.989	58.75	43.991	Data
54	45.219	6.580	57.020	58.75	44.009	Data
54	45.199	6.550	57.020	58.751	44.009	Data
55	45.541	6.542	56.996	58.749	43.991	Data
55	44.841	6.578	56.989	58.75	43.991	Data
55	45.219	6.580	57.020	58.75	44.009	Data
55	45.199	6.550	57.020	58.751	44.009	Data
56	45.541	6.542	56.996	58.749	43.991	Data
56	44.841	6.578	56.989	58.75	43.991	Data
56	45.219	6.580	57.020	58.75	44.009	Data
56	45.199	6.550	57.020	58.751	44.009	Data
57	45.541	6.542	56.996	58.749	43.991	Data
57	44.841	6.578	56.989	58.75	43.991	Data
57	45.219	6.580	57.020	58.75	44.009	Data
57	45.199	6.550	57.020	58.751	44.009	Data
58.5	45.460	6.613	56.982	58.742	44.004	Data
58.5	45.808	6.617	56.975	58.757	44.014	Data
58.5	45.308	6.624	56.980	58.741	44.004	Data
58.5	45.816	6.584	56.979	58.755	44.014	Data
60.5	45.620	6.585	57.005	58.749	44.019	Data
60.5	45.003	6.632	56.985	58.749	44.000	Data
60.5	45.971	6.559	57.002	58.75	44.019	Data
60.5	45.573	6.597	56.983	58.748	44.000	Data
61.75	45.003	6.632	56.985	58.749	44.000	Data
61.75	45.620	6.585	57.005	58.749	44.019	Data
61.75	45.971	6.559	57.002	58.75	44.019	Data
61.75	45.573	6.597	56.983	58.748	44.000	Data
63	45.003	6.632	56.985	58.749	44.000	Data

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	45.620	6.585	57.005	58.749	44.019	Data
63	45.971	6.559	57.002	58.75	44.019	Data
63	45.573	6.597	56.983	58.748	44.000	Data
64	45.620	6.585	57.005	58.749	44.019	Data
64	45.003	6.632	56.985	58.749	44.000	Data
64	45.971	6.559	57.002	58.75	44.019	Data
64	45.573	6.597	56.983	58.748	44.000	Data

Table 439: Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.921	6.605	56.983	58.741	44.982	Data
8	45.040	6.607	56.975	58.742	44.983	Data
30	45.636	6.544	57.046	58.747	44.999	Data
30	44.921	6.605	56.983	58.741	44.982	Data
30	45.182	6.551	57.017	58.75	45.007	Data
30	46.191	6.597	57.002	58.751	45.009	Data
30	45.366	6.566	57.039	58.748	44.999	Data
30	44.807	6.541	57.009	58.75	45.007	Data
30	44.716	6.556	57.000	58.755	45.000	Data
30	44.416	6.548	56.999	58.756	45.000	Data
30	45.040	6.607	56.975	58.742	44.983	Data
30	46.083	6.578	57.012	58.751	45.009	Data
42	44.716	6.556	57.000	58.755	45.000	Data
42	44.416	6.548	56.999	58.756	45.000	Data
43	44.716	6.556	57.000	58.755	45.000	Data
43	44.416	6.548	56.999	58.756	45.000	Data
44	44.716	6.556	57.000	58.755	45.000	Data
44	44.416	6.548	56.999	58.756	45.000	Data
45	44.716	6.556	57.000	58.755	45.000	Data
45	44.416	6.548	56.999	58.756	45.000	Data
46.5	44.921	6.605	56.983	58.741	44.982	Data
46.5	45.040	6.607	56.975	58.742	44.983	Data
48	45.366	6.566	57.039	58.748	44.999	Data
48	45.636	6.544	57.046	58.747	44.999	Data
49	45.366	6.566	57.039	58.748	44.999	Data
49	45.636	6.544	57.046	58.747	44.999	Data
50	45.366	6.566	57.039	58.748	44.999	Data
50	45.636	6.544	57.046	58.747	44.999	Data
51	45.366	6.566	57.039	58.748	44.999	Data
51	45.636	6.544	57.046	58.747	44.999	Data
52.5	44.921	6.605	56.983	58.741	44.982	Data

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
52.5	45.040	6.607	56.975	58.742	44.983	Data
54	44.807	6.541	57.009	58.75	45.007	Data
54	45.182	6.551	57.017	58.75	45.007	Data
55	44.807	6.541	57.009	58.75	45.007	Data
55	45.182	6.551	57.017	58.75	45.007	Data
56	44.807	6.541	57.009	58.75	45.007	Data
56	45.182	6.551	57.017	58.75	45.007	Data
57	44.807	6.541	57.009	58.75	45.007	Data
57	45.182	6.551	57.017	58.75	45.007	Data
58.5	44.921	6.605	56.983	58.741	44.982	Data
58.5	45.040	6.607	56.975	58.742	44.983	Data
60.5	46.191	6.597	57.002	58.751	45.009	Data
60.5	46.083	6.578	57.012	58.751	45.009	Data
61.75	46.191	6.597	57.002	58.751	45.009	Data
61.75	46.083	6.578	57.012	58.751	45.009	Data
63	46.191	6.597	57.002	58.751	45.009	Data
63	46.083	6.578	57.012	58.751	45.009	Data
64	46.083	6.578	57.012	58.751	45.009	Data
64	46.191	6.597	57.002	58.751	45.009	Data

Table 440: Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.768	6.626	56.992	58.742	45.997	Data
8	45.337	6.623	56.980	58.743	45.997	Data
30	45.601	6.574	57.040	58.747	45.991	Data
30	44.973	6.557	57.007	58.75	45.996	Data
30	46.495	6.595	57.009	58.749	45.985	Data
30	44.126	6.574	56.996	58.756	46.001	Data
30	45.337	6.623	56.980	58.743	45.997	Data
30	46.076	6.591	57.010	58.75	45.985	Data
30	44.872	6.538	56.998	58.758	46.000	Data
30	44.768	6.626	56.992	58.742	45.997	Data
30	45.591	6.552	57.037	58.746	45.991	Data
30	44.985	6.551	57.015	58.75	45.995	Data
42	44.872	6.538	56.998	58.758	46.000	Data
42	44.126	6.574	56.996	58.756	46.001	Data
43	44.872	6.538	56.998	58.758	46.000	Data
43	44.126	6.574	56.996	58.756	46.001	Data
44	44.872	6.538	56.998	58.758	46.000	Data
44	44.126	6.574	56.996	58.756	46.001	Data
45	44.872	6.538	56.998	58.758	46.000	Data

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	44.126	6.574	56.996	58.756	46.001	Data
46.5	45.337	6.623	56.980	58.743	45.997	Data
46.5	44.768	6.626	56.992	58.742	45.997	Data
48	45.601	6.574	57.040	58.747	45.991	Data
48	45.591	6.552	57.037	58.746	45.991	Data
49	45.601	6.574	57.040	58.747	45.991	Data
49	45.591	6.552	57.037	58.746	45.991	Data
50	45.601	6.574	57.040	58.747	45.991	Data
50	45.591	6.552	57.037	58.746	45.991	Data
51	45.601	6.574	57.040	58.747	45.991	Data
51	45.591	6.552	57.037	58.746	45.991	Data
52.5	45.337	6.623	56.980	58.743	45.997	Data
52.5	44.768	6.626	56.992	58.742	45.997	Data
54	44.973	6.557	57.007	58.75	45.996	Data
54	44.985	6.551	57.015	58.75	45.995	Data
55	44.973	6.557	57.007	58.75	45.996	Data
55	44.985	6.551	57.015	58.75	45.995	Data
56	44.973	6.557	57.007	58.75	45.996	Data
56	44.985	6.551	57.015	58.75	45.995	Data
57	44.973	6.557	57.007	58.75	45.996	Data
57	44.985	6.551	57.015	58.75	45.995	Data
58.5	44.768	6.626	56.992	58.742	45.997	Data
58.5	45.337	6.623	56.980	58.743	45.997	Data
60.5	46.076	6.591	57.010	58.75	45.985	Data
60.5	46.495	6.595	57.009	58.749	45.985	Data
61.75	46.076	6.591	57.010	58.75	45.985	Data
61.75	46.495	6.595	57.009	58.749	45.985	Data
63	46.076	6.591	57.010	58.75	45.985	Data
63	46.495	6.595	57.009	58.749	45.985	Data
64	46.495	6.595	57.009	58.749	45.985	Data
64	46.076	6.591	57.010	58.75	45.985	Data

Table 441: Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.396	6.587	56.985	58.743	46.517	Data
8	45.719	6.664	56.988	58.743	46.517	Data
30	45.719	6.664	56.988	58.743	46.517	Data
30	45.396	6.587	56.985	58.743	46.517	Data
46.5	45.396	6.587	56.985	58.743	46.517	Data
46.5	45.719	6.664	56.988	58.743	46.517	Data
52.5	45.396	6.587	56.985	58.743	46.517	Data

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
52.5	45.719	6.664	56.988	58.743	46.517	Data
58.5	45.396	6.587	56.985	58.743	46.517	Data
58.5	45.719	6.664	56.988	58.743	46.517	Data

Table 442: Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.379	6.624	56.989	58.744	46.981	Data
8	45.379	6.624	56.989	58.744	46.981	Data
8	45.115	6.642	56.989	58.744	46.981	Data
8	45.360	6.652	56.990	58.742	46.982	Data
30	45.707	6.553	57.043	58.747	47.001	Data
30	45.667	6.542	57.040	58.747	47.001	Data
30	45.379	6.624	56.989	58.744	46.981	Data
30	45.379	6.624	56.989	58.744	46.981	Data
30	45.803	6.609	57.012	58.749	47.021	Data
30	45.360	6.652	56.990	58.742	46.982	Data
30	45.115	6.642	56.989	58.744	46.981	Data
30	44.988	6.575	57.007	58.751	47.007	Data
30	46.303	6.596	57.009	58.75	47.021	Data
30	44.844	6.579	57.012	58.749	47.007	Data
30	44.458	6.569	57.002	58.756	47.008	Data
30	44.416	6.543	57.001	58.756	47.008	Data
42	44.458	6.569	57.002	58.756	47.008	Data
42	44.416	6.543	57.001	58.756	47.008	Data
43	44.458	6.569	57.002	58.756	47.008	Data
43	44.416	6.543	57.001	58.756	47.008	Data
44	44.458	6.569	57.002	58.756	47.008	Data
44	44.416	6.543	57.001	58.756	47.008	Data
45	44.458	6.569	57.002	58.756	47.008	Data
45	44.416	6.543	57.001	58.756	47.008	Data
46.5	45.379	6.624	56.989	58.744	46.981	Data
46.5	45.379	6.624	56.989	58.744	46.981	Data
46.5	45.115	6.642	56.989	58.744	46.981	Data
46.5	45.360	6.652	56.990	58.742	46.982	Data
48	45.707	6.553	57.043	58.747	47.001	Data
48	45.667	6.542	57.040	58.747	47.001	Data
49	45.707	6.553	57.043	58.747	47.001	Data
49	45.667	6.542	57.040	58.747	47.001	Data
50	45.707	6.553	57.043	58.747	47.001	Data
50	45.667	6.542	57.040	58.747	47.001	Data
51	45.707	6.553	57.043	58.747	47.001	Data

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	45.667	6.542	57.040	58.747	47.001	Data
52.5	45.379	6.624	56.989	58.744	46.981	Data
52.5	45.379	6.624	56.989	58.744	46.981	Data
52.5	45.115	6.642	56.989	58.744	46.981	Data
52.5	45.360	6.652	56.990	58.742	46.982	Data
54	44.844	6.579	57.012	58.749	47.007	Data
54	44.988	6.575	57.007	58.751	47.007	Data
55	44.844	6.579	57.012	58.749	47.007	Data
55	44.988	6.575	57.007	58.751	47.007	Data
56	44.844	6.579	57.012	58.749	47.007	Data
56	44.988	6.575	57.007	58.751	47.007	Data
57	44.844	6.579	57.012	58.749	47.007	Data
57	44.988	6.575	57.007	58.751	47.007	Data
58.5	45.379	6.624	56.989	58.744	46.981	Data
58.5	45.379	6.624	56.989	58.744	46.981	Data
58.5	45.115	6.642	56.989	58.744	46.981	Data
58.5	45.360	6.652	56.990	58.742	46.982	Data
60.5	45.803	6.609	57.012	58.749	47.021	Data
60.5	46.303	6.596	57.009	58.75	47.021	Data
61.75	45.803	6.609	57.012	58.749	47.021	Data
61.75	46.303	6.596	57.009	58.75	47.021	Data
63	45.803	6.609	57.012	58.749	47.021	Data
63	46.303	6.596	57.009	58.75	47.021	Data
64	45.803	6.609	57.012	58.749	47.021	Data
64	46.303	6.596	57.009	58.75	47.021	Data

Table 443: Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.708	6.614	56.990	58.742	47.479	Data
8	45.566	6.647	56.989	58.742	47.479	Data
30	45.708	6.614	56.990	58.742	47.479	Data
30	45.566	6.647	56.989	58.742	47.479	Data
46.5	45.566	6.647	56.989	58.742	47.479	Data
46.5	45.708	6.614	56.990	58.742	47.479	Data
52.5	45.708	6.614	56.990	58.742	47.479	Data
52.5	45.566	6.647	56.989	58.742	47.479	Data
58.5	45.708	6.614	56.990	58.742	47.479	Data
58.5	45.566	6.647	56.989	58.742	47.479	Data

Table 444: Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.402	6.617	56.991	58.743	48.011	Data
8	45.524	6.641	56.989	58.742	48.012	Data
30	45.461	6.555	57.048	58.746	47.997	Data
30	44.681	6.541	57.015	58.75	48.014	Data
30	45.472	6.545	57.035	58.748	47.997	Data
30	45.383	6.558	57.006	58.75	48.014	Data
30	45.992	6.558	57.010	58.75	47.990	Data
30	45.524	6.641	56.989	58.742	48.012	Data
30	43.812	6.543	57.000	58.757	48.008	Data
30	45.766	6.595	57.008	58.751	47.990	Data
30	45.402	6.617	56.991	58.743	48.011	Data
30	44.097	6.567	56.998	58.756	48.008	Data
42	43.812	6.543	57.000	58.757	48.008	Data
42	44.097	6.567	56.998	58.756	48.008	Data
43	43.812	6.543	57.000	58.757	48.008	Data
43	44.097	6.567	56.998	58.756	48.008	Data
44	43.812	6.543	57.000	58.757	48.008	Data
44	44.097	6.567	56.998	58.756	48.008	Data
45	43.812	6.543	57.000	58.757	48.008	Data
45	44.097	6.567	56.998	58.756	48.008	Data
46.5	45.524	6.641	56.989	58.742	48.012	Data
46.5	45.402	6.617	56.991	58.743	48.011	Data
48	45.472	6.545	57.035	58.748	47.997	Data
48	45.461	6.555	57.048	58.746	47.997	Data
49	45.472	6.545	57.035	58.748	47.997	Data
49	45.461	6.555	57.048	58.746	47.997	Data
50	45.472	6.545	57.035	58.748	47.997	Data
50	45.461	6.555	57.048	58.746	47.997	Data
51	45.472	6.545	57.035	58.748	47.997	Data
51	45.461	6.555	57.048	58.746	47.997	Data
52.5	45.524	6.641	56.989	58.742	48.012	Data
52.5	45.402	6.617	56.991	58.743	48.011	Data
54	45.383	6.558	57.006	58.75	48.014	Data
54	44.681	6.541	57.015	58.75	48.014	Data
55	45.383	6.558	57.006	58.75	48.014	Data
55	44.681	6.541	57.015	58.75	48.014	Data
56	45.383	6.558	57.006	58.75	48.014	Data
56	44.681	6.541	57.015	58.75	48.014	Data
57	45.383	6.558	57.006	58.75	48.014	Data
57	44.681	6.541	57.015	58.75	48.014	Data
58.5	45.524	6.641	56.989	58.742	48.012	Data
58.5	45.402	6.617	56.991	58.743	48.011	Data
60.5	45.766	6.595	57.008	58.751	47.990	Data
60.5	45.992	6.558	57.010	58.75	47.990	Data

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	45.766	6.595	57.008	58.751	47.990	Data
61.75	45.992	6.558	57.010	58.75	47.990	Data
63	45.766	6.595	57.008	58.751	47.990	Data
63	45.992	6.558	57.010	58.75	47.990	Data
64	45.766	6.595	57.008	58.751	47.990	Data
64	45.992	6.558	57.010	58.75	47.990	Data

Table 445: Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.176	6.649	56.994	58.743	49.004	Data
8	45.079	6.612	56.994	58.742	49.004	Data
30	45.079	6.612	56.994	58.742	49.004	Data
30	45.176	6.649	56.994	58.743	49.004	Data
46.5	45.079	6.612	56.994	58.742	49.004	Data
46.5	45.176	6.649	56.994	58.743	49.004	Data
52.5	45.176	6.649	56.994	58.743	49.004	Data
52.5	45.079	6.612	56.994	58.742	49.004	Data
58.5	45.176	6.649	56.994	58.743	49.004	Data
58.5	45.079	6.612	56.994	58.742	49.004	Data

Table 446: Vertical sweep VG at 58.5 (in), q=45 RO-tip VG AoA 4 VG at span y=58.5 (in)

D.39. Vertical VG vortex sweep at y=64.5 (in), q=45, α_{VG}=4, α_W=7, RO-tip

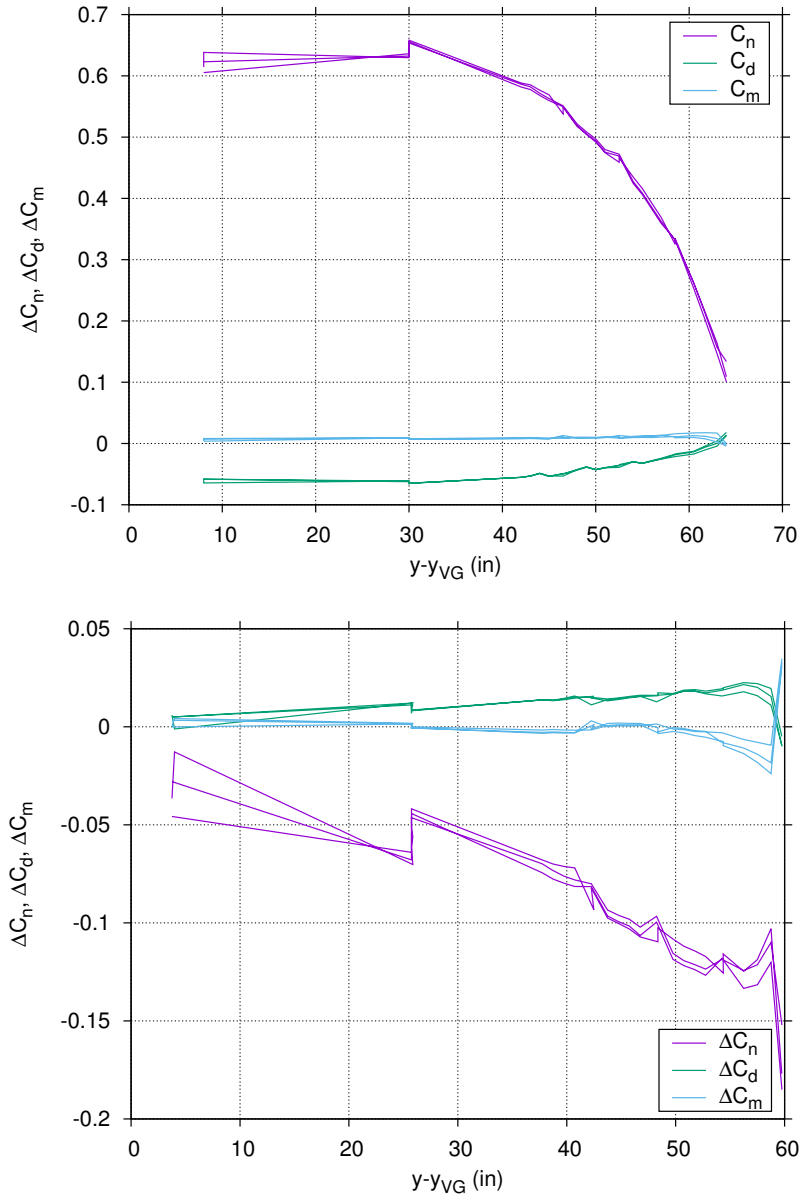

Figure 92. Vertical sweep VG at 64.5 (in), q=45 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 64.5 (in), q=45 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.263	6.603	56.976	64.749	45.003	Data
8	45.193	6.608	56.989	64.749	45.001	Data
30	45.359	6.566	57.039	64.757	45.014	Data
30	45.263	6.603	56.976	64.749	45.003	Data
30	45.517	6.575	57.005	64.75	45.008	Data
30	45.345	6.595	57.038	64.756	45.014	Data
30	45.519	6.557	57.008	64.753	45.028	Data

Vertical sweep VG at 64.5 (in), q=45 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.513	6.566	57.012	64.755	45.028	Data
30	45.193	6.608	56.989	64.749	45.001	Data
30	46.355	6.559	57.011	64.75	45.007	Data
30	45.118	6.565	57.003	64.757	44.997	Data
30	44.985	6.574	57.000	64.756	44.997	Data
42	44.985	6.574	57.000	64.756	44.997	Data
42	45.118	6.565	57.003	64.757	44.997	Data
43	44.985	6.574	57.000	64.756	44.997	Data
43	45.118	6.565	57.003	64.757	44.997	Data
44	44.985	6.574	57.000	64.756	44.997	Data
44	45.118	6.565	57.003	64.757	44.997	Data
45	44.985	6.574	57.000	64.756	44.997	Data
45	45.118	6.565	57.003	64.757	44.997	Data
46.5	45.263	6.603	56.976	64.749	45.003	Data
46.5	45.193	6.608	56.989	64.749	45.001	Data
48	45.359	6.566	57.039	64.757	45.014	Data
48	45.345	6.595	57.038	64.756	45.014	Data
49	45.359	6.566	57.039	64.757	45.014	Data
49	45.345	6.595	57.038	64.756	45.014	Data
50	45.359	6.566	57.039	64.757	45.014	Data
50	45.345	6.595	57.038	64.756	45.014	Data
51	45.345	6.595	57.038	64.756	45.014	Data
51	45.359	6.566	57.039	64.757	45.014	Data
52.5	45.263	6.603	56.976	64.749	45.003	Data
52.5	45.193	6.608	56.989	64.749	45.001	Data
54	45.513	6.566	57.012	64.755	45.028	Data
54	45.519	6.557	57.008	64.753	45.028	Data
55	45.513	6.566	57.012	64.755	45.028	Data
55	45.519	6.557	57.008	64.753	45.028	Data
56	45.513	6.566	57.012	64.755	45.028	Data
56	45.519	6.557	57.008	64.753	45.028	Data
57	45.513	6.566	57.012	64.755	45.028	Data
57	45.519	6.557	57.008	64.753	45.028	Data
58.5	45.263	6.603	56.976	64.749	45.003	Data
58.5	45.193	6.608	56.989	64.749	45.001	Data
60.5	45.517	6.575	57.005	64.75	45.008	Data
60.5	46.355	6.559	57.011	64.75	45.007	Data
61.75	45.517	6.575	57.005	64.75	45.008	Data
61.75	46.355	6.559	57.011	64.75	45.007	Data
63	45.517	6.575	57.005	64.75	45.008	Data
63	46.355	6.559	57.011	64.75	45.007	Data
64	46.355	6.559	57.011	64.75	45.007	Data
64	45.517	6.575	57.005	64.75	45.008	Data

Vertical sweep VG at 64.5 (in), q=45 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 447: Vertical sweep VG at 64.5 (in), q=45 RO-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=45 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.596	6.614	56.973	64.747	46.017	Data
8	45.841	6.578	56.966	64.749	46.018	Data
30	45.446	6.569	57.010	64.755	46.018	Data
30	45.483	6.553	57.033	64.755	46.000	Data
30	45.071	6.577	57.017	64.753	46.018	Data
30	45.540	6.539	57.034	64.755	46.000	Data
30	44.935	6.521	57.003	64.756	46.003	Data
30	45.841	6.578	56.966	64.749	46.018	Data
30	44.745	6.566	56.998	64.756	46.002	Data
30	45.886	6.576	57.011	64.75	45.992	Data
30	45.596	6.614	56.973	64.747	46.017	Data
30	46.206	6.604	57.006	64.751	45.992	Data
42	44.935	6.521	57.003	64.756	46.003	Data
42	44.745	6.566	56.998	64.756	46.002	Data
43	44.935	6.521	57.003	64.756	46.003	Data
43	44.745	6.566	56.998	64.756	46.002	Data
44	44.935	6.521	57.003	64.756	46.003	Data
44	44.745	6.566	56.998	64.756	46.002	Data
45	44.935	6.521	57.003	64.756	46.003	Data
45	44.745	6.566	56.998	64.756	46.002	Data
46.5	45.596	6.614	56.973	64.747	46.017	Data
46.5	45.841	6.578	56.966	64.749	46.018	Data
48	45.483	6.553	57.033	64.755	46.000	Data
48	45.540	6.539	57.034	64.755	46.000	Data
49	45.483	6.553	57.033	64.755	46.000	Data
49	45.540	6.539	57.034	64.755	46.000	Data
50	45.483	6.553	57.033	64.755	46.000	Data
50	45.540	6.539	57.034	64.755	46.000	Data
51	45.483	6.553	57.033	64.755	46.000	Data
51	45.540	6.539	57.034	64.755	46.000	Data
52.5	45.596	6.614	56.973	64.747	46.017	Data
52.5	45.841	6.578	56.966	64.749	46.018	Data
54	45.446	6.569	57.010	64.755	46.018	Data
54	45.071	6.577	57.017	64.753	46.018	Data
55	45.446	6.569	57.010	64.755	46.018	Data
55	45.071	6.577	57.017	64.753	46.018	Data
56	45.446	6.569	57.010	64.755	46.018	Data
56	45.071	6.577	57.017	64.753	46.018	Data

Vertical sweep VG at 64.5 (in), q=45 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	45.446	6.569	57.010	64.755	46.018	Data
57	45.071	6.577	57.017	64.753	46.018	Data
58.5	45.596	6.614	56.973	64.747	46.017	Data
58.5	45.841	6.578	56.966	64.749	46.018	Data
60.5	45.886	6.576	57.011	64.75	45.992	Data
60.5	46.206	6.604	57.006	64.751	45.992	Data
61.75	45.886	6.576	57.011	64.75	45.992	Data
61.75	46.206	6.604	57.006	64.751	45.992	Data
63	45.886	6.576	57.011	64.75	45.992	Data
63	46.206	6.604	57.006	64.751	45.992	Data
64	45.886	6.576	57.011	64.75	45.992	Data
64	46.206	6.604	57.006	64.751	45.992	Data

Table 448: Vertical sweep VG at 64.5 (in), q=45 RO-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=45 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.794	6.627	56.973	64.748	46.993	Data
8	45.449	6.577	56.956	64.749	47.005	Data
30	45.925	6.536	57.037	64.756	47.001	Data
30	45.351	6.559	57.036	64.756	47.000	Data
30	46.030	6.555	57.007	64.751	47.032	Data
30	45.794	6.627	56.973	64.748	46.993	Data
30	46.260	6.581	57.012	64.751	47.032	Data
30	44.900	6.577	56.998	64.756	46.996	Data
30	45.453	6.538	57.012	64.753	47.006	Data
30	44.838	6.592	57.000	64.755	46.996	Data
30	45.335	6.592	57.009	64.754	47.006	Data
30	45.449	6.577	56.956	64.749	47.005	Data
42	44.900	6.577	56.998	64.756	46.996	Data
42	44.838	6.592	57.000	64.755	46.996	Data
43	44.900	6.577	56.998	64.756	46.996	Data
43	44.838	6.592	57.000	64.755	46.996	Data
44	44.900	6.577	56.998	64.756	46.996	Data
44	44.838	6.592	57.000	64.755	46.996	Data
45	44.900	6.577	56.998	64.756	46.996	Data
45	44.838	6.592	57.000	64.755	46.996	Data
46.5	45.794	6.627	56.973	64.748	46.993	Data
46.5	45.449	6.577	56.956	64.749	47.005	Data
48	45.925	6.536	57.037	64.756	47.001	Data
48	45.351	6.559	57.036	64.756	47.000	Data
49	45.925	6.536	57.037	64.756	47.001	Data
49	45.351	6.559	57.036	64.756	47.000	Data

Vertical sweep VG at 64.5 (in), q=45 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	45.925	6.536	57.037	64.756	47.001	Data
50	45.351	6.559	57.036	64.756	47.000	Data
51	45.925	6.536	57.037	64.756	47.001	Data
51	45.351	6.559	57.036	64.756	47.000	Data
52.5	45.794	6.627	56.973	64.748	46.993	Data
52.5	45.449	6.577	56.956	64.749	47.005	Data
54	45.335	6.592	57.009	64.754	47.006	Data
54	45.453	6.538	57.012	64.753	47.006	Data
55	45.335	6.592	57.009	64.754	47.006	Data
55	45.453	6.538	57.012	64.753	47.006	Data
56	45.335	6.592	57.009	64.754	47.006	Data
56	45.453	6.538	57.012	64.753	47.006	Data
57	45.335	6.592	57.009	64.754	47.006	Data
57	45.453	6.538	57.012	64.753	47.006	Data
58.5	45.794	6.627	56.973	64.748	46.993	Data
58.5	45.449	6.577	56.956	64.749	47.005	Data
60.5	46.030	6.555	57.007	64.751	47.032	Data
60.5	46.260	6.581	57.012	64.751	47.032	Data
61.75	46.030	6.555	57.007	64.751	47.032	Data
61.75	46.260	6.581	57.012	64.751	47.032	Data
63	46.030	6.555	57.007	64.751	47.032	Data
63	46.260	6.581	57.012	64.751	47.032	Data
64	46.030	6.555	57.007	64.751	47.032	Data
64	46.260	6.581	57.012	64.751	47.032	Data

Table 449: Vertical sweep VG at 64.5 (in), q=45 RO-tip VG AoA 4 VG at span y=64.5 (in)

D.40. Vertical VG vortex sweep at y=46.5 (in), q=45, α_{VG}=4, α_W=7, SQ-tip

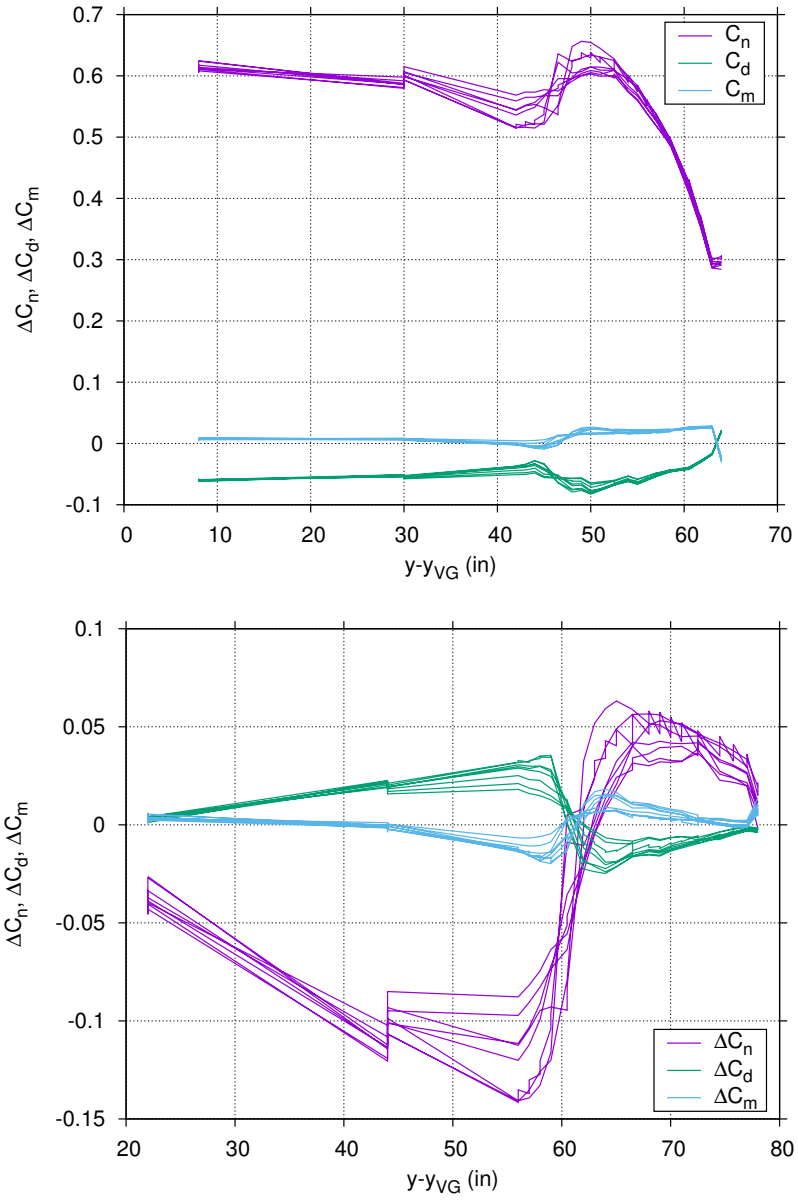

Figure 93. Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.737	6.563	57.000	46.508	41.966	Data
8	45.819	6.602	57.004	46.508	41.982	Data
30	45.261	6.573	57.017	46.491	41.983	Data
30	44.588	6.539	57.079	46.49	41.997	Data
30	45.737	6.563	57.000	46.508	41.966	Data
30	45.819	6.602	57.004	46.508	41.982	Data
30	45.322	6.580	57.026	46.491	41.984	Data

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.394	6.544	57.088	46.49	41.998	Data
30	44.859	6.556	57.024	46.494	42.003	Data
30	44.708	6.569	57.027	46.495	42.003	Data
30	44.708	6.601	57.015	46.497	41.966	Data
30	44.668	6.569	57.013	46.496	41.983	Data
42	44.668	6.569	57.013	46.496	41.983	Data
42	44.708	6.601	57.015	46.497	41.966	Data
43	44.668	6.569	57.013	46.496	41.983	Data
43	44.708	6.601	57.015	46.497	41.966	Data
44	44.668	6.569	57.013	46.496	41.983	Data
44	44.708	6.601	57.015	46.497	41.966	Data
45	44.668	6.569	57.013	46.496	41.983	Data
45	44.708	6.601	57.015	46.497	41.966	Data
46.5	45.819	6.602	57.004	46.508	41.982	Data
46.5	45.737	6.563	57.000	46.508	41.966	Data
48	44.394	6.544	57.088	46.49	41.998	Data
48	44.588	6.539	57.079	46.49	41.997	Data
49	44.394	6.544	57.088	46.49	41.998	Data
49	44.588	6.539	57.079	46.49	41.997	Data
50	44.394	6.544	57.088	46.49	41.998	Data
50	44.588	6.539	57.079	46.49	41.997	Data
51	44.394	6.544	57.088	46.49	41.998	Data
51	44.588	6.539	57.079	46.49	41.997	Data
52.5	45.819	6.602	57.004	46.508	41.982	Data
52.5	45.737	6.563	57.000	46.508	41.966	Data
54	45.261	6.573	57.017	46.491	41.983	Data
54	45.322	6.580	57.026	46.491	41.984	Data
55	45.261	6.573	57.017	46.491	41.983	Data
55	45.322	6.580	57.026	46.491	41.984	Data
56	45.261	6.573	57.017	46.491	41.983	Data
56	45.322	6.580	57.026	46.491	41.984	Data
57	45.261	6.573	57.017	46.491	41.983	Data
57	45.322	6.580	57.026	46.491	41.984	Data
58.5	45.819	6.602	57.004	46.508	41.982	Data
58.5	45.737	6.563	57.000	46.508	41.966	Data
60.5	44.708	6.569	57.027	46.495	42.003	Data
60.5	44.859	6.556	57.024	46.494	42.003	Data
61.75	44.708	6.569	57.027	46.495	42.003	Data
61.75	44.859	6.556	57.024	46.494	42.003	Data
63	44.708	6.569	57.027	46.495	42.003	Data
63	44.859	6.556	57.024	46.494	42.003	Data
64	44.708	6.569	57.027	46.495	42.003	Data
64	44.859	6.556	57.024	46.494	42.003	Data

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 450: Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.572	6.622	57.006	46.508	42.998	Data
8	45.739	6.607	57.000	46.508	42.999	Data
30	44.976	6.563	57.031	46.495	43.009	Data
30	44.305	6.582	57.079	46.489	43.004	Data
30	45.164	6.581	57.022	46.493	43.013	Data
30	45.157	6.590	57.021	46.492	43.013	Data
30	45.572	6.622	57.006	46.508	42.998	Data
30	44.587	6.531	57.032	46.495	43.009	Data
30	45.272	6.558	57.018	46.495	43.005	Data
30	44.826	6.587	57.015	46.496	43.005	Data
30	45.739	6.607	57.000	46.508	42.999	Data
30	43.714	6.546	57.084	46.488	43.004	Data
42	45.272	6.558	57.018	46.495	43.005	Data
42	44.826	6.587	57.015	46.496	43.005	Data
43	45.272	6.558	57.018	46.495	43.005	Data
43	44.826	6.587	57.015	46.496	43.005	Data
44	45.272	6.558	57.018	46.495	43.005	Data
44	44.826	6.587	57.015	46.496	43.005	Data
45	45.272	6.558	57.018	46.495	43.005	Data
45	44.826	6.587	57.015	46.496	43.005	Data
46.5	45.572	6.622	57.006	46.508	42.998	Data
46.5	45.739	6.607	57.000	46.508	42.999	Data
48	43.714	6.546	57.084	46.488	43.004	Data
48	44.305	6.582	57.079	46.489	43.004	Data
49	43.714	6.546	57.084	46.488	43.004	Data
49	44.305	6.582	57.079	46.489	43.004	Data
50	43.714	6.546	57.084	46.488	43.004	Data
50	44.305	6.582	57.079	46.489	43.004	Data
51	43.714	6.546	57.084	46.488	43.004	Data
51	44.305	6.582	57.079	46.489	43.004	Data
52.5	45.739	6.607	57.000	46.508	42.999	Data
52.5	45.572	6.622	57.006	46.508	42.998	Data
54	45.157	6.590	57.021	46.492	43.013	Data
54	45.164	6.581	57.022	46.493	43.013	Data
55	45.157	6.590	57.021	46.492	43.013	Data
55	45.164	6.581	57.022	46.493	43.013	Data
56	45.157	6.590	57.021	46.492	43.013	Data
56	45.164	6.581	57.022	46.493	43.013	Data

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	45.157	6.590	57.021	46.492	43.013	Data
57	45.164	6.581	57.022	46.493	43.013	Data
58.5	45.739	6.607	57.000	46.508	42.999	Data
58.5	45.572	6.622	57.006	46.508	42.998	Data
60.5	44.587	6.531	57.032	46.495	43.009	Data
60.5	44.976	6.563	57.031	46.495	43.009	Data
61.75	44.587	6.531	57.032	46.495	43.009	Data
61.75	44.976	6.563	57.031	46.495	43.009	Data
63	44.587	6.531	57.032	46.495	43.009	Data
63	44.976	6.563	57.031	46.495	43.009	Data
64	44.587	6.531	57.032	46.495	43.009	Data
64	44.976	6.563	57.031	46.495	43.009	Data

Table 451: Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.373	6.613	57.002	46.51	44.005	Data
8	45.622	6.624	57.009	46.509	44.005	Data
8	45.653	6.644	57.006	46.496	44.003	Data
8	45.467	6.678	56.999	46.496	44.003	Data
30	45.117	6.529	57.054	46.483	43.998	Data
30	45.373	6.613	57.002	46.51	44.005	Data
30	44.652	6.577	57.047	46.496	44.000	Data
30	45.507	6.546	57.061	46.494	44.003	Data
30	44.604	6.551	57.028	46.495	44.010	Data
30	45.622	6.624	57.009	46.509	44.005	Data
30	45.120	6.567	57.019	46.496	44.006	Data
30	44.710	6.534	57.020	46.495	44.010	Data
30	45.467	6.678	56.999	46.496	44.003	Data
30	45.653	6.644	57.006	46.496	44.003	Data
30	44.995	6.575	57.022	46.492	43.995	Data
30	45.162	6.479	57.055	46.483	43.998	Data
30	44.304	6.561	57.079	46.486	43.996	Data
30	45.173	6.533	57.017	46.5	44.065	Data
30	44.946	6.596	57.019	46.496	44.006	Data
30	45.451	6.558	57.065	46.494	44.002	Data
30	43.976	6.561	57.081	46.487	43.997	Data
30	44.978	6.575	57.026	46.492	43.995	Data
30	45.374	6.559	57.017	46.499	44.064	Data
30	44.438	6.596	57.052	46.495	44.000	Data
42	45.507	6.546	57.061	46.494	44.003	Data
42	45.120	6.567	57.019	46.496	44.006	Data

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
42	45.451	6.558	57.065	46.494	44.002	Data
42	44.946	6.596	57.019	46.496	44.006	Data
43	45.507	6.546	57.061	46.494	44.003	Data
43	45.120	6.567	57.019	46.496	44.006	Data
43	45.451	6.558	57.065	46.494	44.002	Data
43	44.946	6.596	57.019	46.496	44.006	Data
44	45.507	6.546	57.061	46.494	44.003	Data
44	45.120	6.567	57.019	46.496	44.006	Data
44	45.451	6.558	57.065	46.494	44.002	Data
44	44.946	6.596	57.019	46.496	44.006	Data
45	45.507	6.546	57.061	46.494	44.003	Data
45	45.451	6.558	57.065	46.494	44.002	Data
45	45.120	6.567	57.019	46.496	44.006	Data
45	44.946	6.596	57.019	46.496	44.006	Data
46.5	45.622	6.624	57.009	46.509	44.005	Data
46.5	45.373	6.613	57.002	46.51	44.005	Data
46.5	45.653	6.644	57.006	46.496	44.003	Data
46.5	45.467	6.678	56.999	46.496	44.003	Data
48	44.304	6.561	57.079	46.486	43.996	Data
48	45.117	6.529	57.054	46.483	43.998	Data
48	45.162	6.479	57.055	46.483	43.998	Data
48	43.976	6.561	57.081	46.487	43.997	Data
49	44.304	6.561	57.079	46.486	43.996	Data
49	45.117	6.529	57.054	46.483	43.998	Data
49	45.162	6.479	57.055	46.483	43.998	Data
49	43.976	6.561	57.081	46.487	43.997	Data
50	44.304	6.561	57.079	46.486	43.996	Data
50	45.117	6.529	57.054	46.483	43.998	Data
50	45.162	6.479	57.055	46.483	43.998	Data
50	43.976	6.561	57.081	46.487	43.997	Data
51	44.304	6.561	57.079	46.486	43.996	Data
51	45.117	6.529	57.054	46.483	43.998	Data
51	45.162	6.479	57.055	46.483	43.998	Data
51	43.976	6.561	57.081	46.487	43.997	Data
52.5	45.622	6.624	57.009	46.509	44.005	Data
52.5	45.373	6.613	57.002	46.51	44.005	Data
52.5	45.653	6.644	57.006	46.496	44.003	Data
52.5	45.467	6.678	56.999	46.496	44.003	Data
54	44.978	6.575	57.026	46.492	43.995	Data
54	45.374	6.559	57.017	46.499	44.064	Data
54	45.173	6.533	57.017	46.5	44.065	Data
54	44.995	6.575	57.022	46.492	43.995	Data
55	44.978	6.575	57.026	46.492	43.995	Data
55	45.374	6.559	57.017	46.499	44.064	Data

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	45.173	6.533	57.017	46.5	44.065	Data
55	44.995	6.575	57.022	46.492	43.995	Data
56	44.978	6.575	57.026	46.492	43.995	Data
56	45.374	6.559	57.017	46.499	44.064	Data
56	45.173	6.533	57.017	46.5	44.065	Data
56	44.995	6.575	57.022	46.492	43.995	Data
57	44.978	6.575	57.026	46.492	43.995	Data
57	45.173	6.533	57.017	46.5	44.065	Data
57	45.374	6.559	57.017	46.499	44.064	Data
57	44.995	6.575	57.022	46.492	43.995	Data
58.5	45.373	6.613	57.002	46.51	44.005	Data
58.5	45.653	6.644	57.006	46.496	44.003	Data
58.5	45.622	6.624	57.009	46.509	44.005	Data
58.5	45.467	6.678	56.999	46.496	44.003	Data
60.5	44.710	6.534	57.020	46.495	44.010	Data
60.5	44.604	6.551	57.028	46.495	44.010	Data
60.5	44.438	6.596	57.052	46.495	44.000	Data
60.5	44.652	6.577	57.047	46.496	44.000	Data
61.75	44.710	6.534	57.020	46.495	44.010	Data
61.75	44.604	6.551	57.028	46.495	44.010	Data
61.75	44.438	6.596	57.052	46.495	44.000	Data
61.75	44.652	6.577	57.047	46.496	44.000	Data
63	44.604	6.551	57.028	46.495	44.010	Data
63	44.710	6.534	57.020	46.495	44.010	Data
63	44.438	6.596	57.052	46.495	44.000	Data
63	44.652	6.577	57.047	46.496	44.000	Data
64	44.710	6.534	57.020	46.495	44.010	Data
64	44.438	6.596	57.052	46.495	44.000	Data
64	44.604	6.551	57.028	46.495	44.010	Data
64	44.652	6.577	57.047	46.496	44.000	Data

Table 452: Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.846	6.589	57.006	46.508	44.984	Data
8	45.635	6.614	57.006	46.509	44.984	Data
30	45.419	6.558	57.022	46.491	44.985	Data
30	45.052	6.593	57.014	46.496	44.993	Data
30	44.639	6.534	57.028	46.495	45.007	Data
30	45.037	6.580	57.025	46.492	44.985	Data
30	45.635	6.614	57.006	46.509	44.984	Data
30	44.367	6.550	57.082	46.488	45.007	Data

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.506	6.578	57.078	46.488	45.008	Data
30	45.846	6.589	57.006	46.508	44.984	Data
30	44.412	6.547	57.026	46.494	45.007	Data
30	44.743	6.584	57.017	46.497	44.993	Data
42	44.743	6.584	57.017	46.497	44.993	Data
42	45.052	6.593	57.014	46.496	44.993	Data
43	45.052	6.593	57.014	46.496	44.993	Data
43	44.743	6.584	57.017	46.497	44.993	Data
44	45.052	6.593	57.014	46.496	44.993	Data
44	44.743	6.584	57.017	46.497	44.993	Data
45	45.052	6.593	57.014	46.496	44.993	Data
45	44.743	6.584	57.017	46.497	44.993	Data
46.5	45.635	6.614	57.006	46.509	44.984	Data
46.5	45.846	6.589	57.006	46.508	44.984	Data
48	44.367	6.550	57.082	46.488	45.007	Data
48	44.506	6.578	57.078	46.488	45.008	Data
49	44.367	6.550	57.082	46.488	45.007	Data
49	44.506	6.578	57.078	46.488	45.008	Data
50	44.367	6.550	57.082	46.488	45.007	Data
50	44.506	6.578	57.078	46.488	45.008	Data
51	44.367	6.550	57.082	46.488	45.007	Data
51	44.506	6.578	57.078	46.488	45.008	Data
52.5	45.846	6.589	57.006	46.508	44.984	Data
52.5	45.635	6.614	57.006	46.509	44.984	Data
54	45.037	6.580	57.025	46.492	44.985	Data
54	45.419	6.558	57.022	46.491	44.985	Data
55	45.037	6.580	57.025	46.492	44.985	Data
55	45.419	6.558	57.022	46.491	44.985	Data
56	45.037	6.580	57.025	46.492	44.985	Data
56	45.419	6.558	57.022	46.491	44.985	Data
57	45.037	6.580	57.025	46.492	44.985	Data
57	45.419	6.558	57.022	46.491	44.985	Data
58.5	45.846	6.589	57.006	46.508	44.984	Data
58.5	45.635	6.614	57.006	46.509	44.984	Data
60.5	44.639	6.534	57.028	46.495	45.007	Data
60.5	44.412	6.547	57.026	46.494	45.007	Data
61.75	44.639	6.534	57.028	46.495	45.007	Data
61.75	44.412	6.547	57.026	46.494	45.007	Data
63	44.639	6.534	57.028	46.495	45.007	Data
63	44.412	6.547	57.026	46.494	45.007	Data
64	44.639	6.534	57.028	46.495	45.007	Data
64	44.412	6.547	57.026	46.494	45.007	Data

Table 453: Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.536	6.625	57.006	46.509	46.006	Data
8	45.871	6.617	57.003	46.509	46.005	Data
30	44.901	6.598	57.015	46.496	46.010	Data
30	44.742	6.554	57.075	46.489	45.992	Data
30	44.832	6.573	57.023	46.492	46.000	Data
30	45.871	6.617	57.003	46.509	46.005	Data
30	44.646	6.539	57.027	46.495	45.990	Data
30	43.905	6.570	57.082	46.492	45.991	Data
30	44.705	6.594	57.028	46.491	46.000	Data
30	45.536	6.625	57.006	46.509	46.006	Data
30	44.630	6.564	57.018	46.494	45.990	Data
30	44.564	6.589	57.020	46.496	46.010	Data
42	44.901	6.598	57.015	46.496	46.010	Data
42	44.564	6.589	57.020	46.496	46.010	Data
43	44.901	6.598	57.015	46.496	46.010	Data
43	44.564	6.589	57.020	46.496	46.010	Data
44	44.901	6.598	57.015	46.496	46.010	Data
44	44.564	6.589	57.020	46.496	46.010	Data
45	44.901	6.598	57.015	46.496	46.010	Data
45	44.564	6.589	57.020	46.496	46.010	Data
46.5	45.871	6.617	57.003	46.509	46.005	Data
46.5	45.536	6.625	57.006	46.509	46.006	Data
48	43.905	6.570	57.082	46.492	45.991	Data
48	44.742	6.554	57.075	46.489	45.992	Data
49	43.905	6.570	57.082	46.492	45.991	Data
49	44.742	6.554	57.075	46.489	45.992	Data
50	43.905	6.570	57.082	46.492	45.991	Data
50	44.742	6.554	57.075	46.489	45.992	Data
51	43.905	6.570	57.082	46.492	45.991	Data
51	44.742	6.554	57.075	46.489	45.992	Data
52.5	45.871	6.617	57.003	46.509	46.005	Data
52.5	45.536	6.625	57.006	46.509	46.006	Data
54	44.832	6.573	57.023	46.492	46.000	Data
54	44.705	6.594	57.028	46.491	46.000	Data
55	44.832	6.573	57.023	46.492	46.000	Data
55	44.705	6.594	57.028	46.491	46.000	Data
56	44.832	6.573	57.023	46.492	46.000	Data
56	44.705	6.594	57.028	46.491	46.000	Data
57	44.832	6.573	57.023	46.492	46.000	Data
57	44.705	6.594	57.028	46.491	46.000	Data
58.5	45.871	6.617	57.003	46.509	46.005	Data
58.5	45.536	6.625	57.006	46.509	46.006	Data
60.5	44.646	6.539	57.027	46.495	45.990	Data
60.5	44.630	6.564	57.018	46.494	45.990	Data

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	44.646	6.539	57.027	46.495	45.990	Data
61.75	44.630	6.564	57.018	46.494	45.990	Data
63	44.646	6.539	57.027	46.495	45.990	Data
63	44.630	6.564	57.018	46.494	45.990	Data
64	44.646	6.539	57.027	46.495	45.990	Data
64	44.630	6.564	57.018	46.494	45.990	Data

Table 454: Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.444	6.594	57.008	46.509	46.986	Data
8	45.760	6.608	56.996	46.508	46.986	Data
30	44.079	6.577	57.088	46.487	47.004	Data
30	45.444	6.594	57.008	46.509	46.986	Data
30	44.844	6.547	57.027	46.495	47.020	Data
30	44.921	6.600	57.018	46.496	47.007	Data
30	44.785	6.586	57.023	46.492	47.006	Data
30	44.806	6.574	57.018	46.495	47.006	Data
30	44.806	6.574	57.018	46.495	47.006	Data
30	44.593	6.547	57.026	46.495	47.020	Data
30	45.760	6.608	56.996	46.508	46.986	Data
30	44.431	6.574	57.021	46.491	47.006	Data
30	45.076	6.538	57.016	46.496	47.006	Data
30	43.844	6.570	57.076	46.485	47.005	Data
42	44.921	6.600	57.018	46.496	47.007	Data
42	44.806	6.574	57.018	46.495	47.006	Data
42	44.806	6.574	57.018	46.495	47.006	Data
42	45.076	6.538	57.016	46.496	47.006	Data
43	44.921	6.600	57.018	46.496	47.007	Data
43	44.806	6.574	57.018	46.495	47.006	Data
43	44.806	6.574	57.018	46.495	47.006	Data
43	45.076	6.538	57.016	46.496	47.006	Data
44	44.921	6.600	57.018	46.496	47.007	Data
44	44.806	6.574	57.018	46.495	47.006	Data
44	44.806	6.574	57.018	46.495	47.006	Data
44	45.076	6.538	57.016	46.496	47.006	Data
45	44.921	6.600	57.018	46.496	47.007	Data
45	44.806	6.574	57.018	46.495	47.006	Data
45	44.806	6.574	57.018	46.495	47.006	Data
45	45.076	6.538	57.016	46.496	47.006	Data
46.5	45.760	6.608	56.996	46.508	46.986	Data
46.5	45.444	6.594	57.008	46.509	46.986	Data

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	44.079	6.577	57.088	46.487	47.004	Data
48	43.844	6.570	57.076	46.485	47.005	Data
49	44.079	6.577	57.088	46.487	47.004	Data
49	43.844	6.570	57.076	46.485	47.005	Data
50	44.079	6.577	57.088	46.487	47.004	Data
50	43.844	6.570	57.076	46.485	47.005	Data
51	44.079	6.577	57.088	46.487	47.004	Data
51	43.844	6.570	57.076	46.485	47.005	Data
52.5	45.760	6.608	56.996	46.508	46.986	Data
52.5	45.444	6.594	57.008	46.509	46.986	Data
54	44.431	6.574	57.021	46.491	47.006	Data
54	44.785	6.586	57.023	46.492	47.006	Data
55	44.431	6.574	57.021	46.491	47.006	Data
55	44.785	6.586	57.023	46.492	47.006	Data
56	44.431	6.574	57.021	46.491	47.006	Data
56	44.785	6.586	57.023	46.492	47.006	Data
57	44.431	6.574	57.021	46.491	47.006	Data
57	44.785	6.586	57.023	46.492	47.006	Data
58.5	45.760	6.608	56.996	46.508	46.986	Data
58.5	45.444	6.594	57.008	46.509	46.986	Data
60.5	44.593	6.547	57.026	46.495	47.020	Data
60.5	44.844	6.547	57.027	46.495	47.020	Data
61.75	44.593	6.547	57.026	46.495	47.020	Data
61.75	44.844	6.547	57.027	46.495	47.020	Data
63	44.593	6.547	57.026	46.495	47.020	Data
63	44.844	6.547	57.027	46.495	47.020	Data
64	44.593	6.547	57.026	46.495	47.020	Data
64	44.844	6.547	57.027	46.495	47.020	Data

Table 455: Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.570	6.620	57.002	46.509	47.998	Data
8	45.807	6.637	56.999	46.508	47.998	Data
30	44.423	6.568	57.018	46.494	48.010	Data
30	45.807	6.637	56.999	46.508	47.998	Data
30	44.210	6.584	57.084	46.488	48.000	Data
30	45.570	6.620	57.002	46.509	47.998	Data
30	44.626	6.563	57.077	46.489	48.000	Data
30	45.173	6.560	57.033	46.492	48.018	Data
30	43.449	6.570	57.011	46.495	47.998	Data
30	43.449	6.570	57.011	46.495	47.998	Data

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.013	6.581	57.037	46.492	48.018	Data
30	44.313	6.549	57.022	46.494	48.010	Data
42	43.449	6.570	57.011	46.495	47.998	Data
42	43.449	6.570	57.011	46.495	47.998	Data
43	43.449	6.570	57.011	46.495	47.998	Data
43	43.449	6.570	57.011	46.495	47.998	Data
44	43.449	6.570	57.011	46.495	47.998	Data
44	43.449	6.570	57.011	46.495	47.998	Data
45	43.449	6.570	57.011	46.495	47.998	Data
45	43.449	6.570	57.011	46.495	47.998	Data
46.5	45.570	6.620	57.002	46.509	47.998	Data
46.5	45.807	6.637	56.999	46.508	47.998	Data
48	44.626	6.563	57.077	46.489	48.000	Data
48	44.210	6.584	57.084	46.488	48.000	Data
49	44.626	6.563	57.077	46.489	48.000	Data
49	44.210	6.584	57.084	46.488	48.000	Data
50	44.626	6.563	57.077	46.489	48.000	Data
50	44.210	6.584	57.084	46.488	48.000	Data
51	44.626	6.563	57.077	46.489	48.000	Data
51	44.210	6.584	57.084	46.488	48.000	Data
52.5	45.570	6.620	57.002	46.509	47.998	Data
52.5	45.807	6.637	56.999	46.508	47.998	Data
54	45.173	6.560	57.033	46.492	48.018	Data
54	45.013	6.581	57.037	46.492	48.018	Data
55	45.173	6.560	57.033	46.492	48.018	Data
55	45.013	6.581	57.037	46.492	48.018	Data
56	45.173	6.560	57.033	46.492	48.018	Data
56	45.013	6.581	57.037	46.492	48.018	Data
57	45.173	6.560	57.033	46.492	48.018	Data
57	45.013	6.581	57.037	46.492	48.018	Data
58.5	45.570	6.620	57.002	46.509	47.998	Data
58.5	45.807	6.637	56.999	46.508	47.998	Data
60.5	44.423	6.568	57.018	46.494	48.010	Data
60.5	44.313	6.549	57.022	46.494	48.010	Data
61.75	44.423	6.568	57.018	46.494	48.010	Data
61.75	44.313	6.549	57.022	46.494	48.010	Data
63	44.313	6.549	57.022	46.494	48.010	Data
63	44.423	6.568	57.018	46.494	48.010	Data
64	44.423	6.568	57.018	46.494	48.010	Data
64	44.313	6.549	57.022	46.494	48.010	Data

Table 456: Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.055	6.627	56.998	46.507	48.998	Data
8	45.306	6.579	57.029	46.5	49.049	Data
8	45.150	6.596	57.028	46.499	49.050	Data
8	45.384	6.655	56.997	46.509	48.997	Data
30	45.306	6.579	57.029	46.5	49.049	Data
30	45.055	6.627	56.998	46.507	48.998	Data
30	44.333	6.545	57.025	46.496	49.015	Data
30	44.141	6.562	57.082	46.486	49.000	Data
30	44.668	6.527	57.021	46.496	49.016	Data
30	43.906	6.569	57.079	46.488	49.001	Data
30	44.579	6.607	57.030	46.493	49.005	Data
30	43.836	6.572	57.013	46.497	48.998	Data
30	44.746	6.595	57.037	46.493	49.006	Data
30	45.150	6.596	57.028	46.499	49.050	Data
30	45.384	6.655	56.997	46.509	48.997	Data
30	43.687	6.588	57.016	46.495	48.998	Data
42	43.687	6.588	57.016	46.495	48.998	Data
42	43.836	6.572	57.013	46.497	48.998	Data
43	43.687	6.588	57.016	46.495	48.998	Data
43	43.836	6.572	57.013	46.497	48.998	Data
44	43.687	6.588	57.016	46.495	48.998	Data
44	43.836	6.572	57.013	46.497	48.998	Data
45	43.687	6.588	57.016	46.495	48.998	Data
45	43.836	6.572	57.013	46.497	48.998	Data
46.5	45.306	6.579	57.029	46.5	49.049	Data
46.5	45.055	6.627	56.998	46.507	48.998	Data
46.5	45.384	6.655	56.997	46.509	48.997	Data
46.5	45.150	6.596	57.028	46.499	49.050	Data
48	44.141	6.562	57.082	46.486	49.000	Data
48	43.906	6.569	57.079	46.488	49.001	Data
49	44.141	6.562	57.082	46.486	49.000	Data
49	43.906	6.569	57.079	46.488	49.001	Data
50	44.141	6.562	57.082	46.486	49.000	Data
50	43.906	6.569	57.079	46.488	49.001	Data
51	44.141	6.562	57.082	46.486	49.000	Data
51	43.906	6.569	57.079	46.488	49.001	Data
52.5	45.384	6.655	56.997	46.509	48.997	Data
52.5	45.306	6.579	57.029	46.5	49.049	Data
52.5	45.055	6.627	56.998	46.507	48.998	Data
52.5	45.150	6.596	57.028	46.499	49.050	Data
54	44.746	6.595	57.037	46.493	49.006	Data
54	44.579	6.607	57.030	46.493	49.005	Data
55	44.579	6.607	57.030	46.493	49.005	Data
55	44.746	6.595	57.037	46.493	49.006	Data

Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	44.579	6.607	57.030	46.493	49.005	Data
56	44.746	6.595	57.037	46.493	49.006	Data
57	44.579	6.607	57.030	46.493	49.005	Data
57	44.746	6.595	57.037	46.493	49.006	Data
58.5	45.055	6.627	56.998	46.507	48.998	Data
58.5	45.306	6.579	57.029	46.5	49.049	Data
58.5	45.384	6.655	56.997	46.509	48.997	Data
58.5	45.150	6.596	57.028	46.499	49.050	Data
60.5	44.668	6.527	57.021	46.496	49.016	Data
60.5	44.333	6.545	57.025	46.496	49.015	Data
61.75	44.668	6.527	57.021	46.496	49.016	Data
61.75	44.333	6.545	57.025	46.496	49.015	Data
63	44.668	6.527	57.021	46.496	49.016	Data
63	44.333	6.545	57.025	46.496	49.015	Data
64	44.668	6.527	57.021	46.496	49.016	Data
64	44.333	6.545	57.025	46.496	49.015	Data

Table 457: Vertical sweep VG at 46.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=46.5 (in)

D.41. Vertical VG vortex sweep at y=52.5 (in), q=45, α_{VG}=4, α_W=7, SQ-tip

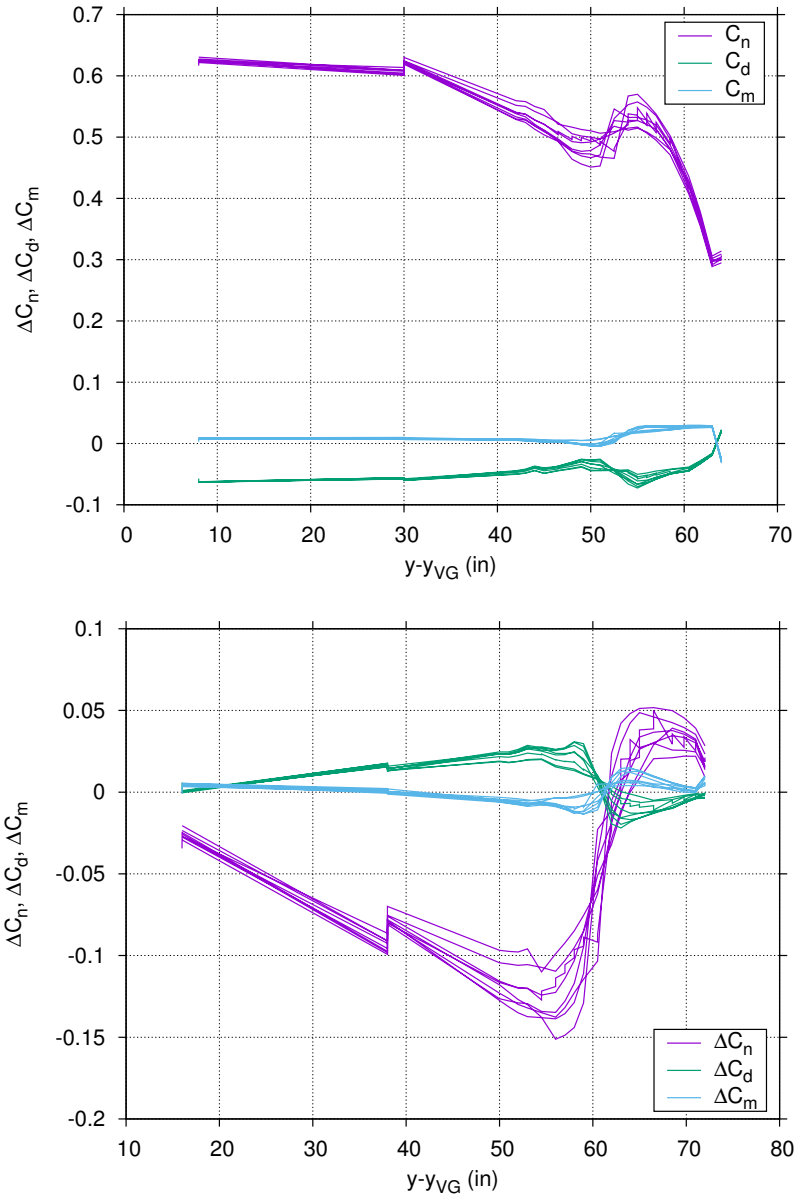

Figure 94. Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.362	6.635	57.015	52.497	42.001	Data
8	44.925	6.608	57.011	52.495	42.001	Data
30	45.362	6.635	57.015	52.497	42.001	Data
30	45.238	6.561	57.044	52.507	41.995	Data
30	45.211	6.548	57.025	52.492	42.017	Data
30	45.640	6.539	57.023	52.492	42.017	Data
30	44.184	6.558	57.083	52.498	41.991	Data

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.360	6.632	57.024	52.503	41.998	Data
30	44.925	6.608	57.011	52.495	42.001	Data
30	45.289	6.594	57.038	52.506	41.994	Data
30	44.265	6.582	57.021	52.504	41.998	Data
30	44.007	6.569	57.079	52.496	41.990	Data
42	44.360	6.632	57.024	52.503	41.998	Data
42	44.265	6.582	57.021	52.504	41.998	Data
43	44.360	6.632	57.024	52.503	41.998	Data
43	44.265	6.582	57.021	52.504	41.998	Data
44	44.360	6.632	57.024	52.503	41.998	Data
44	44.265	6.582	57.021	52.504	41.998	Data
45	44.360	6.632	57.024	52.503	41.998	Data
45	44.265	6.582	57.021	52.504	41.998	Data
46.5	45.362	6.635	57.015	52.497	42.001	Data
46.5	44.925	6.608	57.011	52.495	42.001	Data
48	44.184	6.558	57.083	52.498	41.991	Data
48	44.007	6.569	57.079	52.496	41.990	Data
49	44.184	6.558	57.083	52.498	41.991	Data
49	44.007	6.569	57.079	52.496	41.990	Data
50	44.184	6.558	57.083	52.498	41.991	Data
50	44.007	6.569	57.079	52.496	41.990	Data
51	44.184	6.558	57.083	52.498	41.991	Data
51	44.007	6.569	57.079	52.496	41.990	Data
52.5	44.925	6.608	57.011	52.495	42.001	Data
52.5	45.362	6.635	57.015	52.497	42.001	Data
54	45.238	6.561	57.044	52.507	41.995	Data
54	45.289	6.594	57.038	52.506	41.994	Data
55	45.238	6.561	57.044	52.507	41.995	Data
55	45.289	6.594	57.038	52.506	41.994	Data
56	45.238	6.561	57.044	52.507	41.995	Data
56	45.289	6.594	57.038	52.506	41.994	Data
57	45.238	6.561	57.044	52.507	41.995	Data
57	45.289	6.594	57.038	52.506	41.994	Data
58.5	44.925	6.608	57.011	52.495	42.001	Data
58.5	45.362	6.635	57.015	52.497	42.001	Data
60.5	45.640	6.539	57.023	52.492	42.017	Data
60.5	45.211	6.548	57.025	52.492	42.017	Data
61.75	45.640	6.539	57.023	52.492	42.017	Data
61.75	45.211	6.548	57.025	52.492	42.017	Data
63	45.640	6.539	57.023	52.492	42.017	Data
63	45.211	6.548	57.025	52.492	42.017	Data
64	45.640	6.539	57.023	52.492	42.017	Data
64	45.211	6.548	57.025	52.492	42.017	Data

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 458: Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.662	6.565	57.003	52.497	43.006	Data
8	45.168	6.602	57.012	52.496	43.006	Data
30	45.168	6.602	57.012	52.496	43.006	Data
30	44.557	6.574	57.023	52.502	43.007	Data
30	45.222	6.586	57.040	52.507	42.997	Data
30	44.459	6.568	57.027	52.491	43.014	Data
30	45.212	6.601	57.042	52.506	42.997	Data
30	43.603	6.591	57.069	52.497	42.995	Data
30	45.405	6.588	57.039	52.505	43.016	Data
30	45.017	6.559	57.024	52.491	43.014	Data
30	44.125	6.577	57.023	52.503	43.007	Data
30	45.351	6.615	57.045	52.507	43.016	Data
30	45.662	6.565	57.003	52.497	43.006	Data
30	43.756	6.569	57.077	52.497	42.995	Data
42	44.557	6.574	57.023	52.502	43.007	Data
42	44.125	6.577	57.023	52.503	43.007	Data
43	44.557	6.574	57.023	52.502	43.007	Data
43	44.125	6.577	57.023	52.503	43.007	Data
44	44.557	6.574	57.023	52.502	43.007	Data
44	44.125	6.577	57.023	52.503	43.007	Data
45	44.557	6.574	57.023	52.502	43.007	Data
45	44.125	6.577	57.023	52.503	43.007	Data
46.5	45.662	6.565	57.003	52.497	43.006	Data
46.5	45.168	6.602	57.012	52.496	43.006	Data
48	43.756	6.569	57.077	52.497	42.995	Data
48	43.603	6.591	57.069	52.497	42.995	Data
49	43.756	6.569	57.077	52.497	42.995	Data
49	43.603	6.591	57.069	52.497	42.995	Data
50	43.756	6.569	57.077	52.497	42.995	Data
50	43.603	6.591	57.069	52.497	42.995	Data
51	43.756	6.569	57.077	52.497	42.995	Data
51	43.603	6.591	57.069	52.497	42.995	Data
52.5	45.662	6.565	57.003	52.497	43.006	Data
52.5	45.168	6.602	57.012	52.496	43.006	Data
54	45.212	6.601	57.042	52.506	42.997	Data
54	45.222	6.586	57.040	52.507	42.997	Data
54	45.351	6.615	57.045	52.507	43.016	Data
54	45.405	6.588	57.039	52.505	43.016	Data

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	45.212	6.601	57.042	52.506	42.997	Data
55	45.222	6.586	57.040	52.507	42.997	Data
55	45.351	6.615	57.045	52.507	43.016	Data
55	45.405	6.588	57.039	52.505	43.016	Data
56	45.212	6.601	57.042	52.506	42.997	Data
56	45.222	6.586	57.040	52.507	42.997	Data
56	45.351	6.615	57.045	52.507	43.016	Data
56	45.405	6.588	57.039	52.505	43.016	Data
57	45.212	6.601	57.042	52.506	42.997	Data
57	45.222	6.586	57.040	52.507	42.997	Data
57	45.351	6.615	57.045	52.507	43.016	Data
57	45.405	6.588	57.039	52.505	43.016	Data
58.5	45.662	6.565	57.003	52.497	43.006	Data
58.5	45.168	6.602	57.012	52.496	43.006	Data
60.5	44.459	6.568	57.027	52.491	43.014	Data
60.5	45.017	6.559	57.024	52.491	43.014	Data
61.75	44.459	6.568	57.027	52.491	43.014	Data
61.75	45.017	6.559	57.024	52.491	43.014	Data
63	44.459	6.568	57.027	52.491	43.014	Data
63	45.017	6.559	57.024	52.491	43.014	Data
64	44.459	6.568	57.027	52.491	43.014	Data
64	45.017	6.559	57.024	52.491	43.014	Data

Table 459: Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.154	6.612	57.010	52.497	43.995	Data
8	44.729	6.589	57.007	52.496	43.995	Data
30	45.485	6.532	57.065	52.504	44.003	Data
30	44.985	6.546	57.004	52.509	44.063	Data
30	44.297	6.597	57.017	52.503	44.005	Data
30	45.028	6.539	57.006	52.509	44.063	Data
30	45.154	6.612	57.010	52.497	43.995	Data
30	44.246	6.554	57.075	52.496	43.998	Data
30	45.091	6.589	57.036	52.506	43.983	Data
30	44.578	6.566	57.020	52.504	44.006	Data
30	44.729	6.589	57.007	52.496	43.995	Data
30	45.176	6.599	57.037	52.507	43.983	Data
30	45.475	6.522	57.050	52.497	43.999	Data
30	44.802	6.576	57.047	52.493	44.001	Data
30	45.851	6.518	57.069	52.503	44.002	Data
30	44.567	6.541	57.023	52.492	43.992	Data

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.968	6.550	57.024	52.491	43.992	Data
30	45.113	6.517	57.051	52.497	43.997	Data
30	44.122	6.640	57.048	52.492	44.001	Data
30	43.731	6.573	57.076	52.495	43.998	Data
42	45.851	6.518	57.069	52.503	44.002	Data
42	44.297	6.597	57.017	52.503	44.005	Data
42	45.485	6.532	57.065	52.504	44.003	Data
42	44.578	6.566	57.020	52.504	44.006	Data
43	45.851	6.518	57.069	52.503	44.002	Data
43	44.297	6.597	57.017	52.503	44.005	Data
43	45.485	6.532	57.065	52.504	44.003	Data
43	44.578	6.566	57.020	52.504	44.006	Data
44	45.851	6.518	57.069	52.503	44.002	Data
44	44.297	6.597	57.017	52.503	44.005	Data
44	45.485	6.532	57.065	52.504	44.003	Data
44	44.578	6.566	57.020	52.504	44.006	Data
45	45.851	6.518	57.069	52.503	44.002	Data
45	44.297	6.597	57.017	52.503	44.005	Data
45	45.485	6.532	57.065	52.504	44.003	Data
45	44.578	6.566	57.020	52.504	44.006	Data
46.5	44.729	6.589	57.007	52.496	43.995	Data
46.5	45.154	6.612	57.010	52.497	43.995	Data
48	44.246	6.554	57.075	52.496	43.998	Data
48	45.475	6.522	57.050	52.497	43.999	Data
48	45.113	6.517	57.051	52.497	43.997	Data
48	43.731	6.573	57.076	52.495	43.998	Data
49	44.246	6.554	57.075	52.496	43.998	Data
49	45.475	6.522	57.050	52.497	43.999	Data
49	45.113	6.517	57.051	52.497	43.997	Data
49	43.731	6.573	57.076	52.495	43.998	Data
50	44.246	6.554	57.075	52.496	43.998	Data
50	45.475	6.522	57.050	52.497	43.999	Data
50	45.113	6.517	57.051	52.497	43.997	Data
50	43.731	6.573	57.076	52.495	43.998	Data
51	44.246	6.554	57.075	52.496	43.998	Data
51	45.475	6.522	57.050	52.497	43.999	Data
51	45.113	6.517	57.051	52.497	43.997	Data
51	43.731	6.573	57.076	52.495	43.998	Data
52.5	44.729	6.589	57.007	52.496	43.995	Data
52.5	45.154	6.612	57.010	52.497	43.995	Data
54	45.091	6.589	57.036	52.506	43.983	Data
54	44.985	6.546	57.004	52.509	44.063	Data
54	45.176	6.599	57.037	52.507	43.983	Data
54	45.028	6.539	57.006	52.509	44.063	Data

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	45.091	6.589	57.036	52.506	43.983	Data
55	44.985	6.546	57.004	52.509	44.063	Data
55	45.176	6.599	57.037	52.507	43.983	Data
55	45.028	6.539	57.006	52.509	44.063	Data
56	45.091	6.589	57.036	52.506	43.983	Data
56	44.985	6.546	57.004	52.509	44.063	Data
56	45.176	6.599	57.037	52.507	43.983	Data
56	45.028	6.539	57.006	52.509	44.063	Data
57	45.091	6.589	57.036	52.506	43.983	Data
57	44.985	6.546	57.004	52.509	44.063	Data
57	45.176	6.599	57.037	52.507	43.983	Data
57	45.028	6.539	57.006	52.509	44.063	Data
58.5	44.729	6.589	57.007	52.496	43.995	Data
58.5	45.154	6.612	57.010	52.497	43.995	Data
60.5	44.968	6.550	57.024	52.491	43.992	Data
60.5	44.122	6.640	57.048	52.492	44.001	Data
60.5	44.802	6.576	57.047	52.493	44.001	Data
60.5	44.567	6.541	57.023	52.492	43.992	Data
61.75	44.968	6.550	57.024	52.491	43.992	Data
61.75	44.122	6.640	57.048	52.492	44.001	Data
61.75	44.802	6.576	57.047	52.493	44.001	Data
61.75	44.567	6.541	57.023	52.492	43.992	Data
63	44.968	6.550	57.024	52.491	43.992	Data
63	44.122	6.640	57.048	52.492	44.001	Data
63	44.802	6.576	57.047	52.493	44.001	Data
63	44.567	6.541	57.023	52.492	43.992	Data
64	44.968	6.550	57.024	52.491	43.992	Data
64	44.122	6.640	57.048	52.492	44.001	Data
64	44.802	6.576	57.047	52.493	44.001	Data
64	44.567	6.541	57.023	52.492	43.992	Data

Table 460: Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.593	6.627	57.008	52.498	45.000	Data
8	43.816	6.563	57.010	52.495	45.000	Data
30	44.593	6.627	57.008	52.498	45.000	Data
30	45.117	6.560	57.041	52.506	44.997	Data
30	43.530	6.571	57.072	52.495	44.997	Data
30	44.671	6.554	57.024	52.491	45.011	Data
30	45.646	6.607	57.040	52.506	44.998	Data
30	44.678	6.559	57.021	52.492	45.011	Data

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	43.629	6.565	57.078	52.496	44.998	Data
30	44.276	6.572	57.035	52.502	45.006	Data
30	43.816	6.563	57.010	52.495	45.000	Data
30	43.998	6.595	57.022	52.502	45.006	Data
42	43.998	6.595	57.022	52.502	45.006	Data
42	44.276	6.572	57.035	52.502	45.006	Data
43	43.998	6.595	57.022	52.502	45.006	Data
43	44.276	6.572	57.035	52.502	45.006	Data
44	43.998	6.595	57.022	52.502	45.006	Data
44	44.276	6.572	57.035	52.502	45.006	Data
45	43.998	6.595	57.022	52.502	45.006	Data
45	44.276	6.572	57.035	52.502	45.006	Data
46.5	44.593	6.627	57.008	52.498	45.000	Data
46.5	43.816	6.563	57.010	52.495	45.000	Data
48	43.530	6.571	57.072	52.495	44.997	Data
48	43.629	6.565	57.078	52.496	44.998	Data
49	43.530	6.571	57.072	52.495	44.997	Data
49	43.629	6.565	57.078	52.496	44.998	Data
50	43.530	6.571	57.072	52.495	44.997	Data
50	43.629	6.565	57.078	52.496	44.998	Data
51	43.530	6.571	57.072	52.495	44.997	Data
51	43.629	6.565	57.078	52.496	44.998	Data
52.5	43.816	6.563	57.010	52.495	45.000	Data
52.5	44.593	6.627	57.008	52.498	45.000	Data
54	45.117	6.560	57.041	52.506	44.997	Data
54	45.646	6.607	57.040	52.506	44.998	Data
55	45.117	6.560	57.041	52.506	44.997	Data
55	45.646	6.607	57.040	52.506	44.998	Data
56	45.117	6.560	57.041	52.506	44.997	Data
56	45.646	6.607	57.040	52.506	44.998	Data
57	45.117	6.560	57.041	52.506	44.997	Data
57	45.646	6.607	57.040	52.506	44.998	Data
58.5	44.593	6.627	57.008	52.498	45.000	Data
58.5	43.816	6.563	57.010	52.495	45.000	Data
60.5	44.678	6.559	57.021	52.492	45.011	Data
60.5	44.671	6.554	57.024	52.491	45.011	Data
61.75	44.678	6.559	57.021	52.492	45.011	Data
61.75	44.671	6.554	57.024	52.491	45.011	Data
63	44.678	6.559	57.021	52.492	45.011	Data
63	44.671	6.554	57.024	52.491	45.011	Data
64	44.671	6.554	57.024	52.491	45.011	Data
64	44.678	6.559	57.021	52.492	45.011	Data

Table 461: Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.937	6.635	57.007	52.497	45.992	Data
8	44.740	6.604	57.012	52.496	45.992	Data
30	44.937	6.635	57.007	52.497	45.992	Data
30	44.138	6.576	57.082	52.496	46.005	Data
30	45.192	6.587	57.037	52.505	46.017	Data
30	44.930	6.548	57.029	52.492	46.001	Data
30	44.740	6.604	57.012	52.496	45.992	Data
30	45.140	6.603	57.040	52.505	46.017	Data
30	44.789	6.585	57.022	52.492	46.001	Data
30	43.607	6.550	57.079	52.497	46.004	Data
30	44.288	6.562	57.028	52.503	45.996	Data
30	43.992	6.607	57.015	52.502	45.996	Data
42	43.992	6.607	57.015	52.502	45.996	Data
42	44.288	6.562	57.028	52.503	45.996	Data
43	43.992	6.607	57.015	52.502	45.996	Data
43	44.288	6.562	57.028	52.503	45.996	Data
44	43.992	6.607	57.015	52.502	45.996	Data
44	44.288	6.562	57.028	52.503	45.996	Data
45	44.288	6.562	57.028	52.503	45.996	Data
45	43.992	6.607	57.015	52.502	45.996	Data
46.5	44.740	6.604	57.012	52.496	45.992	Data
46.5	44.937	6.635	57.007	52.497	45.992	Data
48	44.138	6.576	57.082	52.496	46.005	Data
48	43.607	6.550	57.079	52.497	46.004	Data
49	44.138	6.576	57.082	52.496	46.005	Data
49	43.607	6.550	57.079	52.497	46.004	Data
50	43.607	6.550	57.079	52.497	46.004	Data
50	44.138	6.576	57.082	52.496	46.005	Data
51	43.607	6.550	57.079	52.497	46.004	Data
51	44.138	6.576	57.082	52.496	46.005	Data
52.5	44.937	6.635	57.007	52.497	45.992	Data
52.5	44.740	6.604	57.012	52.496	45.992	Data
54	45.192	6.587	57.037	52.505	46.017	Data
54	45.140	6.603	57.040	52.505	46.017	Data
55	45.192	6.587	57.037	52.505	46.017	Data
55	45.140	6.603	57.040	52.505	46.017	Data
56	45.192	6.587	57.037	52.505	46.017	Data
56	45.140	6.603	57.040	52.505	46.017	Data
57	45.192	6.587	57.037	52.505	46.017	Data
57	45.140	6.603	57.040	52.505	46.017	Data
58.5	44.937	6.635	57.007	52.497	45.992	Data
58.5	44.740	6.604	57.012	52.496	45.992	Data
60.5	44.930	6.548	57.029	52.492	46.001	Data
60.5	44.789	6.585	57.022	52.492	46.001	Data

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	44.930	6.548	57.029	52.492	46.001	Data
61.75	44.789	6.585	57.022	52.492	46.001	Data
63	44.930	6.548	57.029	52.492	46.001	Data
63	44.789	6.585	57.022	52.492	46.001	Data
64	44.789	6.585	57.022	52.492	46.001	Data
64	44.930	6.548	57.029	52.492	46.001	Data

Table 462: Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.014	6.625	57.007	52.497	46.997	Data
8	44.392	6.621	57.007	52.497	46.997	Data
30	44.345	6.566	57.013	52.505	47.006	Data
30	44.578	6.567	57.073	52.497	46.992	Data
30	44.014	6.625	57.007	52.497	46.997	Data
30	44.446	6.552	57.021	52.492	46.989	Data
30	45.049	6.520	57.025	52.491	46.989	Data
30	45.068	6.582	57.034	52.506	47.019	Data
30	44.392	6.621	57.007	52.497	46.997	Data
30	44.489	6.566	57.074	52.498	46.991	Data
30	44.924	6.594	57.033	52.506	47.019	Data
30	44.168	6.604	57.027	52.503	47.006	Data
42	44.345	6.566	57.013	52.505	47.006	Data
42	44.168	6.604	57.027	52.503	47.006	Data
43	44.345	6.566	57.013	52.505	47.006	Data
43	44.168	6.604	57.027	52.503	47.006	Data
44	44.345	6.566	57.013	52.505	47.006	Data
44	44.168	6.604	57.027	52.503	47.006	Data
45	44.345	6.566	57.013	52.505	47.006	Data
45	44.168	6.604	57.027	52.503	47.006	Data
46.5	44.392	6.621	57.007	52.497	46.997	Data
46.5	44.014	6.625	57.007	52.497	46.997	Data
48	44.578	6.567	57.073	52.497	46.992	Data
48	44.489	6.566	57.074	52.498	46.991	Data
49	44.578	6.567	57.073	52.497	46.992	Data
49	44.489	6.566	57.074	52.498	46.991	Data
50	44.578	6.567	57.073	52.497	46.992	Data
50	44.489	6.566	57.074	52.498	46.991	Data
51	44.578	6.567	57.073	52.497	46.992	Data
51	44.489	6.566	57.074	52.498	46.991	Data
52.5	44.392	6.621	57.007	52.497	46.997	Data
52.5	44.014	6.625	57.007	52.497	46.997	Data

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	45.068	6.582	57.034	52.506	47.019	Data
54	44.924	6.594	57.033	52.506	47.019	Data
55	45.068	6.582	57.034	52.506	47.019	Data
55	44.924	6.594	57.033	52.506	47.019	Data
56	45.068	6.582	57.034	52.506	47.019	Data
56	44.924	6.594	57.033	52.506	47.019	Data
57	45.068	6.582	57.034	52.506	47.019	Data
57	44.924	6.594	57.033	52.506	47.019	Data
58.5	44.392	6.621	57.007	52.497	46.997	Data
58.5	44.014	6.625	57.007	52.497	46.997	Data
60.5	45.049	6.520	57.025	52.491	46.989	Data
60.5	44.446	6.552	57.021	52.492	46.989	Data
61.75	45.049	6.520	57.025	52.491	46.989	Data
61.75	44.446	6.552	57.021	52.492	46.989	Data
63	45.049	6.520	57.025	52.491	46.989	Data
63	44.446	6.552	57.021	52.492	46.989	Data
64	44.446	6.552	57.021	52.492	46.989	Data
64	45.049	6.520	57.025	52.491	46.989	Data

Table 463: Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.296	6.615	57.007	52.497	48.014	Data
8	44.606	6.601	57.011	52.496	48.015	Data
30	44.352	6.587	57.025	52.504	47.990	Data
30	44.606	6.601	57.011	52.496	48.015	Data
30	44.511	6.560	57.016	52.503	47.990	Data
30	45.419	6.594	57.029	52.505	48.000	Data
30	44.450	6.602	57.078	52.496	47.998	Data
30	44.670	6.610	57.033	52.505	48.000	Data
30	44.818	6.544	57.021	52.491	48.016	Data
30	44.732	6.556	57.079	52.497	47.998	Data
30	45.152	6.542	57.026	52.492	48.016	Data
30	44.296	6.615	57.007	52.497	48.014	Data
42	44.352	6.587	57.025	52.504	47.990	Data
42	44.511	6.560	57.016	52.503	47.990	Data
43	44.511	6.560	57.016	52.503	47.990	Data
43	44.352	6.587	57.025	52.504	47.990	Data
44	44.511	6.560	57.016	52.503	47.990	Data
44	44.352	6.587	57.025	52.504	47.990	Data
45	44.511	6.560	57.016	52.503	47.990	Data
45	44.352	6.587	57.025	52.504	47.990	Data

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	44.606	6.601	57.011	52.496	48.015	Data
46.5	44.296	6.615	57.007	52.497	48.014	Data
48	44.732	6.556	57.079	52.497	47.998	Data
48	44.450	6.602	57.078	52.496	47.998	Data
49	44.732	6.556	57.079	52.497	47.998	Data
49	44.450	6.602	57.078	52.496	47.998	Data
50	44.732	6.556	57.079	52.497	47.998	Data
50	44.450	6.602	57.078	52.496	47.998	Data
51	44.732	6.556	57.079	52.497	47.998	Data
51	44.450	6.602	57.078	52.496	47.998	Data
52.5	44.606	6.601	57.011	52.496	48.015	Data
52.5	44.296	6.615	57.007	52.497	48.014	Data
54	44.670	6.610	57.033	52.505	48.000	Data
54	45.419	6.594	57.029	52.505	48.000	Data
55	44.670	6.610	57.033	52.505	48.000	Data
55	45.419	6.594	57.029	52.505	48.000	Data
56	44.670	6.610	57.033	52.505	48.000	Data
56	45.419	6.594	57.029	52.505	48.000	Data
57	44.670	6.610	57.033	52.505	48.000	Data
57	45.419	6.594	57.029	52.505	48.000	Data
58.5	44.606	6.601	57.011	52.496	48.015	Data
58.5	44.296	6.615	57.007	52.497	48.014	Data
60.5	45.152	6.542	57.026	52.492	48.016	Data
60.5	44.818	6.544	57.021	52.491	48.016	Data
61.75	45.152	6.542	57.026	52.492	48.016	Data
61.75	44.818	6.544	57.021	52.491	48.016	Data
63	45.152	6.542	57.026	52.492	48.016	Data
63	44.818	6.544	57.021	52.491	48.016	Data
64	44.818	6.544	57.021	52.491	48.016	Data
64	45.152	6.542	57.026	52.492	48.016	Data

Table 464: Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	44.274	6.643	57.008	52.496	49.002	Data
8	44.945	6.589	57.005	52.495	49.002	Data
30	45.299	6.601	57.040	52.505	49.005	Data
30	44.565	6.594	57.080	52.497	48.999	Data
30	43.992	6.575	57.071	52.498	48.999	Data
30	44.945	6.589	57.005	52.495	49.002	Data
30	45.215	6.600	57.030	52.505	49.005	Data
30	44.315	6.564	57.021	52.504	48.999	Data

Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.274	6.643	57.008	52.496	49.002	Data
30	43.676	6.588	57.016	52.503	49.000	Data
30	44.693	6.594	57.018	52.491	49.015	Data
30	44.456	6.536	57.032	52.491	49.014	Data
42	43.676	6.588	57.016	52.503	49.000	Data
42	44.315	6.564	57.021	52.504	48.999	Data
43	43.676	6.588	57.016	52.503	49.000	Data
43	44.315	6.564	57.021	52.504	48.999	Data
44	43.676	6.588	57.016	52.503	49.000	Data
44	44.315	6.564	57.021	52.504	48.999	Data
45	43.676	6.588	57.016	52.503	49.000	Data
45	44.315	6.564	57.021	52.504	48.999	Data
46.5	44.945	6.589	57.005	52.495	49.002	Data
46.5	44.274	6.643	57.008	52.496	49.002	Data
48	44.565	6.594	57.080	52.497	48.999	Data
48	43.992	6.575	57.071	52.498	48.999	Data
49	44.565	6.594	57.080	52.497	48.999	Data
49	43.992	6.575	57.071	52.498	48.999	Data
50	44.565	6.594	57.080	52.497	48.999	Data
50	43.992	6.575	57.071	52.498	48.999	Data
51	44.565	6.594	57.080	52.497	48.999	Data
51	43.992	6.575	57.071	52.498	48.999	Data
52.5	44.945	6.589	57.005	52.495	49.002	Data
52.5	44.274	6.643	57.008	52.496	49.002	Data
54	45.299	6.601	57.040	52.505	49.005	Data
54	45.215	6.600	57.030	52.505	49.005	Data
55	45.299	6.601	57.040	52.505	49.005	Data
55	45.215	6.600	57.030	52.505	49.005	Data
56	45.299	6.601	57.040	52.505	49.005	Data
56	45.215	6.600	57.030	52.505	49.005	Data
57	45.299	6.601	57.040	52.505	49.005	Data
57	45.215	6.600	57.030	52.505	49.005	Data
58.5	44.945	6.589	57.005	52.495	49.002	Data
58.5	44.274	6.643	57.008	52.496	49.002	Data
60.5	44.693	6.594	57.018	52.491	49.015	Data
60.5	44.456	6.536	57.032	52.491	49.014	Data
61.75	44.693	6.594	57.018	52.491	49.015	Data
61.75	44.456	6.536	57.032	52.491	49.014	Data
63	44.693	6.594	57.018	52.491	49.015	Data
63	44.456	6.536	57.032	52.491	49.014	Data
64	44.693	6.594	57.018	52.491	49.015	Data
64	44.456	6.536	57.032	52.491	49.014	Data

Table 465: Vertical sweep VG at 52.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=52.5 (in)

D.42. Vertical VG vortex sweep at y=58.5 (in), q=45, α_{VG}=4, α_W=7, SQ-tip

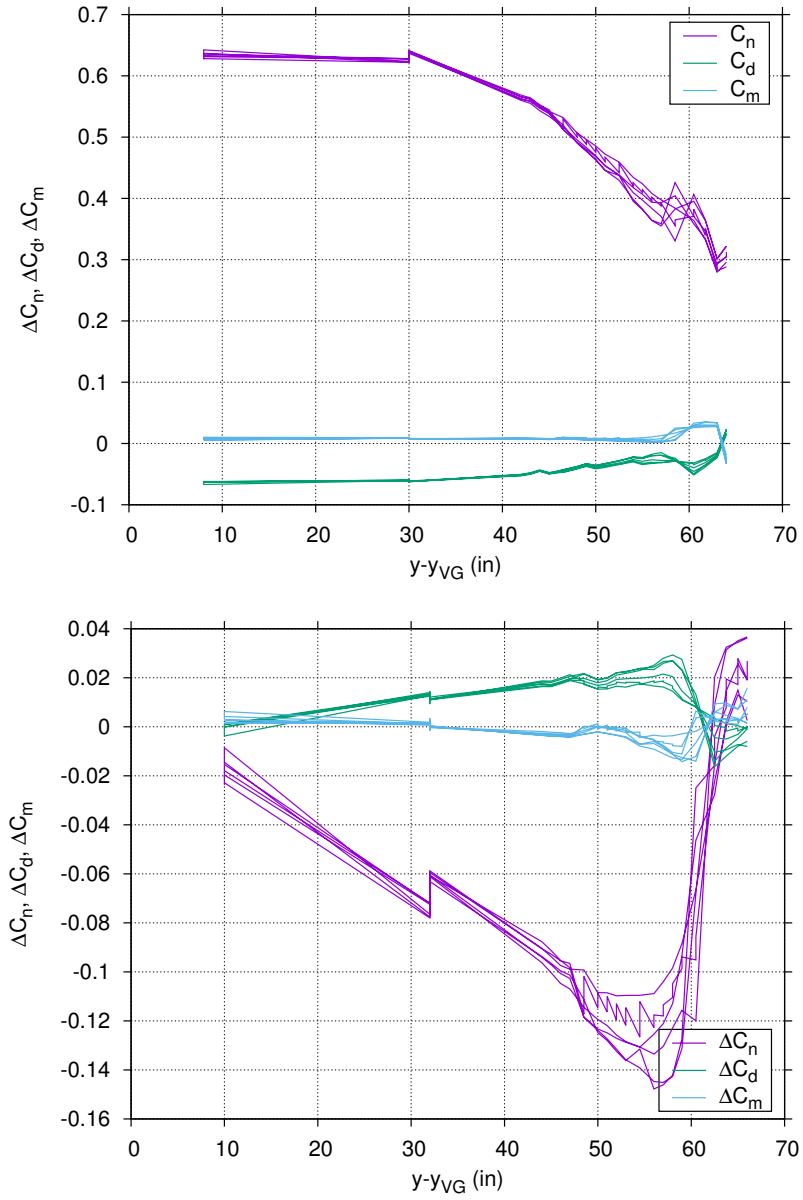

Figure 95. Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.194	6.599	56.987	58.5	42.991	Data
8	45.234	6.583	56.987	58.501	42.991	Data
30	45.197	6.573	57.028	58.502	43.004	Data
30	45.381	6.544	57.024	58.502	43.004	Data
30	45.099	6.559	57.024	58.499	43.001	Data
30	44.685	6.606	57.073	58.508	42.997	Data
30	45.214	6.595	57.044	58.501	43.014	Data

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.389	6.573	57.037	58.501	43.015	Data
30	45.194	6.599	56.987	58.5	42.991	Data
30	44.385	6.566	57.074	58.509	42.997	Data
30	44.609	6.600	57.023	58.499	43.000	Data
30	45.234	6.583	56.987	58.501	42.991	Data
42	45.099	6.559	57.024	58.499	43.001	Data
42	44.609	6.600	57.023	58.499	43.000	Data
43	45.099	6.559	57.024	58.499	43.001	Data
43	44.609	6.600	57.023	58.499	43.000	Data
44	45.099	6.559	57.024	58.499	43.001	Data
44	44.609	6.600	57.023	58.499	43.000	Data
45	45.099	6.559	57.024	58.499	43.001	Data
45	44.609	6.600	57.023	58.499	43.000	Data
46.5	45.194	6.599	56.987	58.5	42.991	Data
46.5	45.234	6.583	56.987	58.501	42.991	Data
48	44.385	6.566	57.074	58.509	42.997	Data
48	44.685	6.606	57.073	58.508	42.997	Data
49	44.385	6.566	57.074	58.509	42.997	Data
49	44.685	6.606	57.073	58.508	42.997	Data
50	44.385	6.566	57.074	58.509	42.997	Data
50	44.685	6.606	57.073	58.508	42.997	Data
51	44.385	6.566	57.074	58.509	42.997	Data
51	44.685	6.606	57.073	58.508	42.997	Data
52.5	45.194	6.599	56.987	58.5	42.991	Data
52.5	45.234	6.583	56.987	58.501	42.991	Data
54	45.214	6.595	57.044	58.501	43.014	Data
54	45.389	6.573	57.037	58.501	43.015	Data
55	45.214	6.595	57.044	58.501	43.014	Data
55	45.389	6.573	57.037	58.501	43.015	Data
56	45.214	6.595	57.044	58.501	43.014	Data
56	45.389	6.573	57.037	58.501	43.015	Data
57	45.214	6.595	57.044	58.501	43.014	Data
57	45.389	6.573	57.037	58.501	43.015	Data
58.5	45.194	6.599	56.987	58.5	42.991	Data
58.5	45.234	6.583	56.987	58.501	42.991	Data
60.5	45.381	6.544	57.024	58.502	43.004	Data
60.5	45.197	6.573	57.028	58.502	43.004	Data
61.75	45.381	6.544	57.024	58.502	43.004	Data
61.75	45.197	6.573	57.028	58.502	43.004	Data
63	45.381	6.544	57.024	58.502	43.004	Data
63	45.197	6.573	57.028	58.502	43.004	Data
64	45.381	6.544	57.024	58.502	43.004	Data
64	45.197	6.573	57.028	58.502	43.004	Data

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 466: Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.706	6.583	56.996	58.5	44.011	Data
8	45.232	6.647	56.985	58.501	44.011	Data
8	44.784	6.619	56.971	58.502	44.133	Data
8	44.984	6.592	56.967	58.502	44.132	Data
30	45.706	6.583	56.996	58.5	44.011	Data
30	44.784	6.619	56.971	58.502	44.133	Data
30	44.984	6.592	56.967	58.502	44.132	Data
30	45.715	6.520	57.050	58.507	43.998	Data
30	44.993	6.552	57.025	58.501	43.992	Data
30	45.650	6.603	57.042	58.502	43.992	Data
30	45.239	6.557	57.022	58.501	43.993	Data
30	45.197	6.580	57.040	58.501	43.992	Data
30	45.857	6.513	57.003	58.492	44.061	Data
30	44.740	6.562	57.032	58.501	44.002	Data
30	44.259	6.553	57.075	58.509	44.003	Data
30	46.006	6.555	57.061	58.516	44.003	Data
30	46.083	6.563	57.061	58.515	44.003	Data
30	43.849	6.569	57.080	58.51	44.003	Data
30	44.214	6.605	57.055	58.501	44.001	Data
30	45.232	6.647	56.985	58.501	44.011	Data
30	44.313	6.565	57.054	58.502	44.001	Data
30	45.116	6.543	57.003	58.493	44.061	Data
30	45.640	6.525	57.046	58.508	43.998	Data
30	44.752	6.603	57.024	58.499	44.003	Data
42	44.740	6.562	57.032	58.501	44.002	Data
42	46.006	6.555	57.061	58.516	44.003	Data
42	46.083	6.563	57.061	58.515	44.003	Data
42	44.752	6.603	57.024	58.499	44.003	Data
43	46.006	6.555	57.061	58.516	44.003	Data
43	44.740	6.562	57.032	58.501	44.002	Data
43	46.083	6.563	57.061	58.515	44.003	Data
43	44.752	6.603	57.024	58.499	44.003	Data
44	46.006	6.555	57.061	58.516	44.003	Data
44	44.740	6.562	57.032	58.501	44.002	Data
44	46.083	6.563	57.061	58.515	44.003	Data
44	44.752	6.603	57.024	58.499	44.003	Data
45	46.006	6.555	57.061	58.516	44.003	Data
45	44.740	6.562	57.032	58.501	44.002	Data

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	46.083	6.563	57.061	58.515	44.003	Data
45	44.752	6.603	57.024	58.499	44.003	Data
46.5	44.984	6.592	56.967	58.502	44.132	Data
46.5	45.706	6.583	56.996	58.5	44.011	Data
46.5	44.784	6.619	56.971	58.502	44.133	Data
46.5	45.232	6.647	56.985	58.501	44.011	Data
48	44.259	6.553	57.075	58.509	44.003	Data
48	43.849	6.569	57.080	58.51	44.003	Data
48	45.640	6.525	57.046	58.508	43.998	Data
48	45.715	6.520	57.050	58.507	43.998	Data
49	44.259	6.553	57.075	58.509	44.003	Data
49	43.849	6.569	57.080	58.51	44.003	Data
49	45.640	6.525	57.046	58.508	43.998	Data
49	45.715	6.520	57.050	58.507	43.998	Data
50	44.259	6.553	57.075	58.509	44.003	Data
50	43.849	6.569	57.080	58.51	44.003	Data
50	45.640	6.525	57.046	58.508	43.998	Data
50	45.715	6.520	57.050	58.507	43.998	Data
51	43.849	6.569	57.080	58.51	44.003	Data
51	44.259	6.553	57.075	58.509	44.003	Data
51	45.640	6.525	57.046	58.508	43.998	Data
51	45.715	6.520	57.050	58.507	43.998	Data
52.5	45.706	6.583	56.996	58.5	44.011	Data
52.5	44.784	6.619	56.971	58.502	44.133	Data
52.5	44.984	6.592	56.967	58.502	44.132	Data
52.5	45.232	6.647	56.985	58.501	44.011	Data
54	45.650	6.603	57.042	58.502	43.992	Data
54	45.197	6.580	57.040	58.501	43.992	Data
54	45.857	6.513	57.003	58.492	44.061	Data
54	45.116	6.543	57.003	58.493	44.061	Data
55	45.650	6.603	57.042	58.502	43.992	Data
55	45.197	6.580	57.040	58.501	43.992	Data
55	45.857	6.513	57.003	58.492	44.061	Data
55	45.116	6.543	57.003	58.493	44.061	Data
56	45.650	6.603	57.042	58.502	43.992	Data
56	45.197	6.580	57.040	58.501	43.992	Data
56	45.857	6.513	57.003	58.492	44.061	Data
56	45.116	6.543	57.003	58.493	44.061	Data
57	45.650	6.603	57.042	58.502	43.992	Data
57	45.857	6.513	57.003	58.492	44.061	Data
57	45.197	6.580	57.040	58.501	43.992	Data
57	45.116	6.543	57.003	58.493	44.061	Data
58.5	44.784	6.619	56.971	58.502	44.133	Data
58.5	45.706	6.583	56.996	58.5	44.011	Data

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
58.5	44.984	6.592	56.967	58.502	44.132	Data
58.5	45.232	6.647	56.985	58.501	44.011	Data
60.5	45.239	6.557	57.022	58.501	43.993	Data
60.5	44.993	6.552	57.025	58.501	43.992	Data
60.5	44.214	6.605	57.055	58.501	44.001	Data
60.5	44.313	6.565	57.054	58.502	44.001	Data
61.75	45.239	6.557	57.022	58.501	43.993	Data
61.75	44.993	6.552	57.025	58.501	43.992	Data
61.75	44.214	6.605	57.055	58.501	44.001	Data
61.75	44.313	6.565	57.054	58.502	44.001	Data
63	45.239	6.557	57.022	58.501	43.993	Data
63	44.993	6.552	57.025	58.501	43.992	Data
63	44.214	6.605	57.055	58.501	44.001	Data
63	44.313	6.565	57.054	58.502	44.001	Data
64	45.239	6.557	57.022	58.501	43.993	Data
64	44.993	6.552	57.025	58.501	43.992	Data
64	44.214	6.605	57.055	58.501	44.001	Data
64	44.313	6.565	57.054	58.502	44.001	Data

Table 467: Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.158	6.599	56.987	58.5	44.991	Data
8	45.177	6.620	56.992	58.501	44.991	Data
30	45.091	6.595	57.034	58.502	45.007	Data
30	45.677	6.589	57.037	58.502	45.007	Data
30	45.158	6.599	56.987	58.5	44.991	Data
30	45.177	6.620	56.992	58.501	44.991	Data
30	45.108	6.562	57.024	58.502	44.990	Data
30	44.470	6.547	57.078	58.509	45.008	Data
30	44.451	6.583	57.074	58.51	45.008	Data
30	44.858	6.577	57.038	58.5	44.999	Data
30	45.001	6.546	57.025	58.502	44.990	Data
30	44.744	6.583	57.035	58.5	44.999	Data
42	44.858	6.577	57.038	58.5	44.999	Data
42	44.744	6.583	57.035	58.5	44.999	Data
43	44.858	6.577	57.038	58.5	44.999	Data
43	44.744	6.583	57.035	58.5	44.999	Data
44	44.858	6.577	57.038	58.5	44.999	Data
44	44.744	6.583	57.035	58.5	44.999	Data
45	44.858	6.577	57.038	58.5	44.999	Data
45	44.744	6.583	57.035	58.5	44.999	Data

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	45.177	6.620	56.992	58.501	44.991	Data
46.5	45.158	6.599	56.987	58.5	44.991	Data
48	44.470	6.547	57.078	58.509	45.008	Data
48	44.451	6.583	57.074	58.51	45.008	Data
49	44.470	6.547	57.078	58.509	45.008	Data
49	44.451	6.583	57.074	58.51	45.008	Data
50	44.470	6.547	57.078	58.509	45.008	Data
50	44.451	6.583	57.074	58.51	45.008	Data
51	44.470	6.547	57.078	58.509	45.008	Data
51	44.451	6.583	57.074	58.51	45.008	Data
52.5	45.177	6.620	56.992	58.501	44.991	Data
52.5	45.158	6.599	56.987	58.5	44.991	Data
54	45.091	6.595	57.034	58.502	45.007	Data
54	45.677	6.589	57.037	58.502	45.007	Data
55	45.091	6.595	57.034	58.502	45.007	Data
55	45.677	6.589	57.037	58.502	45.007	Data
56	45.091	6.595	57.034	58.502	45.007	Data
56	45.677	6.589	57.037	58.502	45.007	Data
57	45.091	6.595	57.034	58.502	45.007	Data
57	45.677	6.589	57.037	58.502	45.007	Data
58.5	45.158	6.599	56.987	58.5	44.991	Data
58.5	45.177	6.620	56.992	58.501	44.991	Data
60.5	45.108	6.562	57.024	58.502	44.990	Data
60.5	45.001	6.546	57.025	58.502	44.990	Data
61.75	45.108	6.562	57.024	58.502	44.990	Data
61.75	45.001	6.546	57.025	58.502	44.990	Data
63	45.108	6.562	57.024	58.502	44.990	Data
63	45.001	6.546	57.025	58.502	44.990	Data
64	45.108	6.562	57.024	58.502	44.990	Data
64	45.001	6.546	57.025	58.502	44.990	Data

Table 468: Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.668	6.596	56.990	58.5	46.004	Data
8	45.749	6.581	56.988	58.501	46.004	Data
30	44.899	6.559	57.037	58.502	46.003	Data
30	44.918	6.511	57.023	58.501	46.011	Data
30	44.311	6.550	57.074	58.51	46.007	Data
30	45.074	6.558	57.052	58.501	46.003	Data
30	45.044	6.541	57.022	58.502	46.010	Data
30	45.749	6.581	56.988	58.501	46.004	Data

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	44.688	6.605	57.078	58.508	46.007	Data
30	45.668	6.596	56.990	58.5	46.004	Data
30	44.416	6.595	57.034	58.498	46.004	Data
30	44.909	6.603	57.030	58.499	46.004	Data
42	44.416	6.595	57.034	58.498	46.004	Data
42	44.909	6.603	57.030	58.499	46.004	Data
43	44.416	6.595	57.034	58.498	46.004	Data
43	44.909	6.603	57.030	58.499	46.004	Data
44	44.416	6.595	57.034	58.498	46.004	Data
44	44.909	6.603	57.030	58.499	46.004	Data
45	44.909	6.603	57.030	58.499	46.004	Data
45	44.416	6.595	57.034	58.498	46.004	Data
46.5	45.749	6.581	56.988	58.501	46.004	Data
46.5	45.668	6.596	56.990	58.5	46.004	Data
48	44.311	6.550	57.074	58.51	46.007	Data
48	44.688	6.605	57.078	58.508	46.007	Data
49	44.311	6.550	57.074	58.51	46.007	Data
49	44.688	6.605	57.078	58.508	46.007	Data
50	44.311	6.550	57.074	58.51	46.007	Data
50	44.688	6.605	57.078	58.508	46.007	Data
51	44.311	6.550	57.074	58.51	46.007	Data
51	44.688	6.605	57.078	58.508	46.007	Data
52.5	45.749	6.581	56.988	58.501	46.004	Data
52.5	45.668	6.596	56.990	58.5	46.004	Data
54	45.074	6.558	57.052	58.501	46.003	Data
54	44.899	6.559	57.037	58.502	46.003	Data
55	45.074	6.558	57.052	58.501	46.003	Data
55	44.899	6.559	57.037	58.502	46.003	Data
56	45.074	6.558	57.052	58.501	46.003	Data
56	44.899	6.559	57.037	58.502	46.003	Data
57	45.074	6.558	57.052	58.501	46.003	Data
57	44.899	6.559	57.037	58.502	46.003	Data
58.5	45.668	6.596	56.990	58.5	46.004	Data
58.5	45.749	6.581	56.988	58.501	46.004	Data
60.5	44.918	6.511	57.023	58.501	46.011	Data
60.5	45.044	6.541	57.022	58.502	46.010	Data
61.75	44.918	6.511	57.023	58.501	46.011	Data
61.75	45.044	6.541	57.022	58.502	46.010	Data
63	44.918	6.511	57.023	58.501	46.011	Data
63	45.044	6.541	57.022	58.502	46.010	Data
64	44.918	6.511	57.023	58.501	46.011	Data
64	45.044	6.541	57.022	58.502	46.010	Data

Table 469: Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.404	6.579	56.992	58.501	47.017	Data
8	45.678	6.598	56.991	58.501	47.017	Data
30	45.096	6.579	57.022	58.502	47.004	Data
30	44.972	6.546	57.021	58.501	47.004	Data
30	45.104	6.596	57.048	58.501	47.001	Data
30	44.398	6.559	57.067	58.508	46.992	Data
30	44.829	6.555	57.038	58.5	47.003	Data
30	44.855	6.577	57.048	58.503	47.001	Data
30	45.404	6.579	56.992	58.501	47.017	Data
30	44.616	6.564	57.034	58.5	47.003	Data
30	44.343	6.523	57.075	58.51	46.992	Data
30	45.678	6.598	56.991	58.501	47.017	Data
42	44.829	6.555	57.038	58.5	47.003	Data
42	44.616	6.564	57.034	58.5	47.003	Data
43	44.829	6.555	57.038	58.5	47.003	Data
43	44.616	6.564	57.034	58.5	47.003	Data
44	44.829	6.555	57.038	58.5	47.003	Data
44	44.616	6.564	57.034	58.5	47.003	Data
45	44.829	6.555	57.038	58.5	47.003	Data
45	44.616	6.564	57.034	58.5	47.003	Data
46.5	45.678	6.598	56.991	58.501	47.017	Data
46.5	45.404	6.579	56.992	58.501	47.017	Data
48	44.398	6.559	57.067	58.508	46.992	Data
48	44.343	6.523	57.075	58.51	46.992	Data
49	44.398	6.559	57.067	58.508	46.992	Data
49	44.343	6.523	57.075	58.51	46.992	Data
50	44.398	6.559	57.067	58.508	46.992	Data
50	44.343	6.523	57.075	58.51	46.992	Data
51	44.398	6.559	57.067	58.508	46.992	Data
51	44.343	6.523	57.075	58.51	46.992	Data
52.5	45.678	6.598	56.991	58.501	47.017	Data
52.5	45.404	6.579	56.992	58.501	47.017	Data
54	45.104	6.596	57.048	58.501	47.001	Data
54	44.855	6.577	57.048	58.503	47.001	Data
55	45.104	6.596	57.048	58.501	47.001	Data
55	44.855	6.577	57.048	58.503	47.001	Data
56	45.104	6.596	57.048	58.501	47.001	Data
56	44.855	6.577	57.048	58.503	47.001	Data
57	45.104	6.596	57.048	58.501	47.001	Data
57	44.855	6.577	57.048	58.503	47.001	Data
58.5	45.404	6.579	56.992	58.501	47.017	Data
58.5	45.678	6.598	56.991	58.501	47.017	Data
60.5	45.096	6.579	57.022	58.502	47.004	Data
60.5	44.972	6.546	57.021	58.501	47.004	Data

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	45.096	6.579	57.022	58.502	47.004	Data
61.75	44.972	6.546	57.021	58.501	47.004	Data
63	45.096	6.579	57.022	58.502	47.004	Data
63	44.972	6.546	57.021	58.501	47.004	Data
64	45.096	6.579	57.022	58.502	47.004	Data
64	44.972	6.546	57.021	58.501	47.004	Data

Table 470: Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.692	6.597	56.998	58.5	48.008	Data
8	45.348	6.551	56.991	58.498	48.008	Data
30	44.456	6.565	57.077	58.509	48.006	Data
30	45.416	6.601	57.051	58.501	47.999	Data
30	44.622	6.605	57.032	58.498	47.989	Data
30	45.063	6.578	57.016	58.502	48.003	Data
30	44.842	6.546	57.018	58.502	48.003	Data
30	44.380	6.572	57.070	58.509	48.007	Data
30	45.692	6.597	56.998	58.5	48.008	Data
30	45.348	6.551	56.991	58.498	48.008	Data
30	45.156	6.609	57.052	58.501	47.999	Data
30	44.598	6.578	57.035	58.5	47.990	Data
42	44.622	6.605	57.032	58.498	47.989	Data
42	44.598	6.578	57.035	58.5	47.990	Data
43	44.622	6.605	57.032	58.498	47.989	Data
43	44.598	6.578	57.035	58.5	47.990	Data
44	44.622	6.605	57.032	58.498	47.989	Data
44	44.598	6.578	57.035	58.5	47.990	Data
45	44.622	6.605	57.032	58.498	47.989	Data
45	44.598	6.578	57.035	58.5	47.990	Data
46.5	45.348	6.551	56.991	58.498	48.008	Data
46.5	45.692	6.597	56.998	58.5	48.008	Data
48	44.380	6.572	57.070	58.509	48.007	Data
48	44.456	6.565	57.077	58.509	48.006	Data
49	44.380	6.572	57.070	58.509	48.007	Data
49	44.456	6.565	57.077	58.509	48.006	Data
50	44.380	6.572	57.070	58.509	48.007	Data
50	44.456	6.565	57.077	58.509	48.006	Data
51	44.380	6.572	57.070	58.509	48.007	Data
51	44.456	6.565	57.077	58.509	48.006	Data
52.5	45.348	6.551	56.991	58.498	48.008	Data
52.5	45.692	6.597	56.998	58.5	48.008	Data

Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	45.416	6.601	57.051	58.501	47.999	Data
54	45.156	6.609	57.052	58.501	47.999	Data
55	45.416	6.601	57.051	58.501	47.999	Data
55	45.156	6.609	57.052	58.501	47.999	Data
56	45.416	6.601	57.051	58.501	47.999	Data
56	45.156	6.609	57.052	58.501	47.999	Data
57	45.416	6.601	57.051	58.501	47.999	Data
57	45.156	6.609	57.052	58.501	47.999	Data
58.5	45.348	6.551	56.991	58.498	48.008	Data
58.5	45.692	6.597	56.998	58.5	48.008	Data
60.5	44.842	6.546	57.018	58.502	48.003	Data
60.5	45.063	6.578	57.016	58.502	48.003	Data
61.75	44.842	6.546	57.018	58.502	48.003	Data
61.75	45.063	6.578	57.016	58.502	48.003	Data
63	44.842	6.546	57.018	58.502	48.003	Data
63	45.063	6.578	57.016	58.502	48.003	Data
64	44.842	6.546	57.018	58.502	48.003	Data
64	45.063	6.578	57.016	58.502	48.003	Data

Table 471: Vertical sweep VG at 58.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=58.5 (in)

D.43. Vertical VG vortex sweep at y=64.5 (in), q=45, α_{VG}=4, α_W=7, SQ-tip

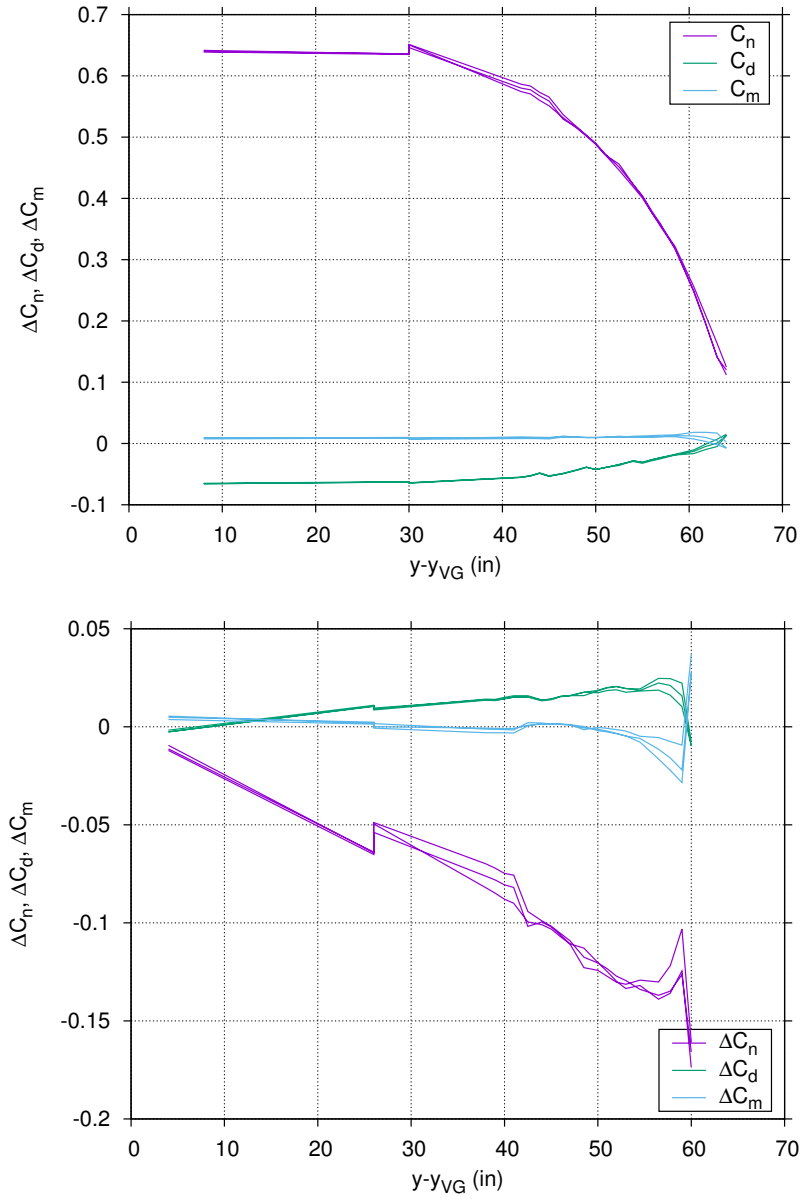

Figure 96. Vertical sweep VG at 64.5 (in), q=45 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 64.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.105	6.612	57.017	64.498	45.019	Data
8	45.273	6.612	57.018	64.497	45.019	Data
30	45.384	6.581	57.040	64.512	45.007	Data
30	45.829	6.604	57.038	64.514	45.007	Data
30	45.807	6.558	57.021	64.5	44.991	Data
30	45.273	6.612	57.018	64.497	45.019	Data
30	45.564	6.577	57.021	64.5	44.991	Data

Vertical sweep VG at 64.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	45.220	6.578	57.027	64.515	45.001	Data
30	44.646	6.560	57.074	64.507	45.004	Data
30	44.605	6.551	57.078	64.505	45.004	Data
30	45.348	6.585	57.029	64.514	45.000	Data
30	45.105	6.612	57.017	64.498	45.019	Data
42	45.220	6.578	57.027	64.515	45.001	Data
42	45.348	6.585	57.029	64.514	45.000	Data
43	45.220	6.578	57.027	64.515	45.001	Data
43	45.348	6.585	57.029	64.514	45.000	Data
44	45.220	6.578	57.027	64.515	45.001	Data
44	45.348	6.585	57.029	64.514	45.000	Data
45	45.220	6.578	57.027	64.515	45.001	Data
45	45.348	6.585	57.029	64.514	45.000	Data
46.5	45.273	6.612	57.018	64.497	45.019	Data
46.5	45.105	6.612	57.017	64.498	45.019	Data
48	44.605	6.551	57.078	64.505	45.004	Data
48	44.646	6.560	57.074	64.507	45.004	Data
49	44.605	6.551	57.078	64.505	45.004	Data
49	44.646	6.560	57.074	64.507	45.004	Data
50	44.605	6.551	57.078	64.505	45.004	Data
50	44.646	6.560	57.074	64.507	45.004	Data
51	44.605	6.551	57.078	64.505	45.004	Data
51	44.646	6.560	57.074	64.507	45.004	Data
52.5	45.105	6.612	57.017	64.498	45.019	Data
52.5	45.273	6.612	57.018	64.497	45.019	Data
54	45.829	6.604	57.038	64.514	45.007	Data
54	45.384	6.581	57.040	64.512	45.007	Data
55	45.829	6.604	57.038	64.514	45.007	Data
55	45.384	6.581	57.040	64.512	45.007	Data
56	45.829	6.604	57.038	64.514	45.007	Data
56	45.384	6.581	57.040	64.512	45.007	Data
57	45.829	6.604	57.038	64.514	45.007	Data
57	45.384	6.581	57.040	64.512	45.007	Data
58.5	45.105	6.612	57.017	64.498	45.019	Data
58.5	45.273	6.612	57.018	64.497	45.019	Data
60.5	45.564	6.577	57.021	64.5	44.991	Data
60.5	45.807	6.558	57.021	64.5	44.991	Data
61.75	45.564	6.577	57.021	64.5	44.991	Data
61.75	45.807	6.558	57.021	64.5	44.991	Data
63	45.564	6.577	57.021	64.5	44.991	Data
63	45.807	6.558	57.021	64.5	44.991	Data
64	45.564	6.577	57.021	64.5	44.991	Data
64	45.807	6.558	57.021	64.5	44.991	Data

Vertical sweep VG at 64.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 472: Vertical sweep VG at 64.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.148	6.598	57.021	64.497	45.993	Data
8	45.265	6.567	57.013	64.498	45.993	Data
30	45.148	6.598	57.021	64.497	45.993	Data
30	45.502	6.560	57.023	64.499	46.006	Data
30	45.049	6.556	57.074	64.507	45.993	Data
30	44.936	6.577	57.032	64.516	46.008	Data
30	45.265	6.567	57.013	64.498	45.993	Data
30	45.085	6.619	57.041	64.512	45.993	Data
30	45.833	6.605	57.038	64.513	45.993	Data
30	45.041	6.588	57.029	64.517	46.009	Data
30	45.828	6.568	57.018	64.501	46.005	Data
30	44.436	6.555	57.076	64.508	45.993	Data
42	45.041	6.588	57.029	64.517	46.009	Data
42	44.936	6.577	57.032	64.516	46.008	Data
43	45.041	6.588	57.029	64.517	46.009	Data
43	44.936	6.577	57.032	64.516	46.008	Data
44	45.041	6.588	57.029	64.517	46.009	Data
44	44.936	6.577	57.032	64.516	46.008	Data
45	45.041	6.588	57.029	64.517	46.009	Data
45	44.936	6.577	57.032	64.516	46.008	Data
46.5	45.265	6.567	57.013	64.498	45.993	Data
46.5	45.148	6.598	57.021	64.497	45.993	Data
48	44.436	6.555	57.076	64.508	45.993	Data
48	45.049	6.556	57.074	64.507	45.993	Data
49	44.436	6.555	57.076	64.508	45.993	Data
49	45.049	6.556	57.074	64.507	45.993	Data
50	44.436	6.555	57.076	64.508	45.993	Data
50	45.049	6.556	57.074	64.507	45.993	Data
51	44.436	6.555	57.076	64.508	45.993	Data
51	45.049	6.556	57.074	64.507	45.993	Data
52.5	45.148	6.598	57.021	64.497	45.993	Data
52.5	45.265	6.567	57.013	64.498	45.993	Data
54	45.833	6.605	57.038	64.513	45.993	Data
54	45.085	6.619	57.041	64.512	45.993	Data
55	45.833	6.605	57.038	64.513	45.993	Data
55	45.085	6.619	57.041	64.512	45.993	Data
56	45.833	6.605	57.038	64.513	45.993	Data
56	45.085	6.619	57.041	64.512	45.993	Data

Vertical sweep VG at 64.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	45.833	6.605	57.038	64.513	45.993	Data
57	45.085	6.619	57.041	64.512	45.993	Data
58.5	45.148	6.598	57.021	64.497	45.993	Data
58.5	45.265	6.567	57.013	64.498	45.993	Data
60.5	45.502	6.560	57.023	64.499	46.006	Data
60.5	45.828	6.568	57.018	64.501	46.005	Data
61.75	45.502	6.560	57.023	64.499	46.006	Data
61.75	45.828	6.568	57.018	64.501	46.005	Data
63	45.502	6.560	57.023	64.499	46.006	Data
63	45.828	6.568	57.018	64.501	46.005	Data
64	45.502	6.560	57.023	64.499	46.006	Data
64	45.828	6.568	57.018	64.501	46.005	Data

Table 473: Vertical sweep VG at 64.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	45.493	6.591	57.021	64.498	46.993	Data
8	45.302	6.610	57.017	64.498	46.994	Data
30	45.302	6.610	57.017	64.498	46.994	Data
30	45.493	6.591	57.021	64.498	46.993	Data
30	45.404	6.578	57.017	64.498	46.992	Data
30	44.722	6.610	57.029	64.517	47.007	Data
30	45.216	6.589	57.047	64.512	47.000	Data
30	45.512	6.599	57.034	64.513	47.001	Data
30	44.736	6.620	57.029	64.516	47.007	Data
30	44.850	6.554	57.074	64.508	47.003	Data
30	44.561	6.549	57.079	64.508	47.004	Data
30	45.544	6.529	57.019	64.5	46.992	Data
42	44.736	6.620	57.029	64.516	47.007	Data
42	44.722	6.610	57.029	64.517	47.007	Data
43	44.736	6.620	57.029	64.516	47.007	Data
43	44.722	6.610	57.029	64.517	47.007	Data
44	44.736	6.620	57.029	64.516	47.007	Data
44	44.722	6.610	57.029	64.517	47.007	Data
45	44.736	6.620	57.029	64.516	47.007	Data
45	44.722	6.610	57.029	64.517	47.007	Data
46.5	45.302	6.610	57.017	64.498	46.994	Data
46.5	45.493	6.591	57.021	64.498	46.993	Data
48	44.561	6.549	57.079	64.508	47.004	Data
48	44.850	6.554	57.074	64.508	47.003	Data
49	44.561	6.549	57.079	64.508	47.004	Data
49	44.850	6.554	57.074	64.508	47.003	Data

Vertical sweep VG at 64.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	44.561	6.549	57.079	64.508	47.004	Data
50	44.850	6.554	57.074	64.508	47.003	Data
51	44.561	6.549	57.079	64.508	47.004	Data
51	44.850	6.554	57.074	64.508	47.003	Data
52.5	45.302	6.610	57.017	64.498	46.994	Data
52.5	45.493	6.591	57.021	64.498	46.993	Data
54	45.512	6.599	57.034	64.513	47.001	Data
54	45.216	6.589	57.047	64.512	47.000	Data
55	45.512	6.599	57.034	64.513	47.001	Data
55	45.216	6.589	57.047	64.512	47.000	Data
56	45.512	6.599	57.034	64.513	47.001	Data
56	45.216	6.589	57.047	64.512	47.000	Data
57	45.512	6.599	57.034	64.513	47.001	Data
57	45.216	6.589	57.047	64.512	47.000	Data
58.5	45.493	6.591	57.021	64.498	46.993	Data
58.5	45.302	6.610	57.017	64.498	46.994	Data
60.5	45.544	6.529	57.019	64.5	46.992	Data
60.5	45.404	6.578	57.017	64.498	46.992	Data
61.75	45.544	6.529	57.019	64.5	46.992	Data
61.75	45.404	6.578	57.017	64.498	46.992	Data
63	45.544	6.529	57.019	64.5	46.992	Data
63	45.404	6.578	57.017	64.498	46.992	Data
64	45.544	6.529	57.019	64.5	46.992	Data
64	45.404	6.578	57.017	64.498	46.992	Data

Table 474: Vertical sweep VG at 64.5 (in), q=45 SQ-tip VG AoA 4 VG at span y=64.5 (in)

D.44. Vertical VG vortex sweep at y=46.5 (in), q=25, α_{VG}=4, α_W=7, RO-tip

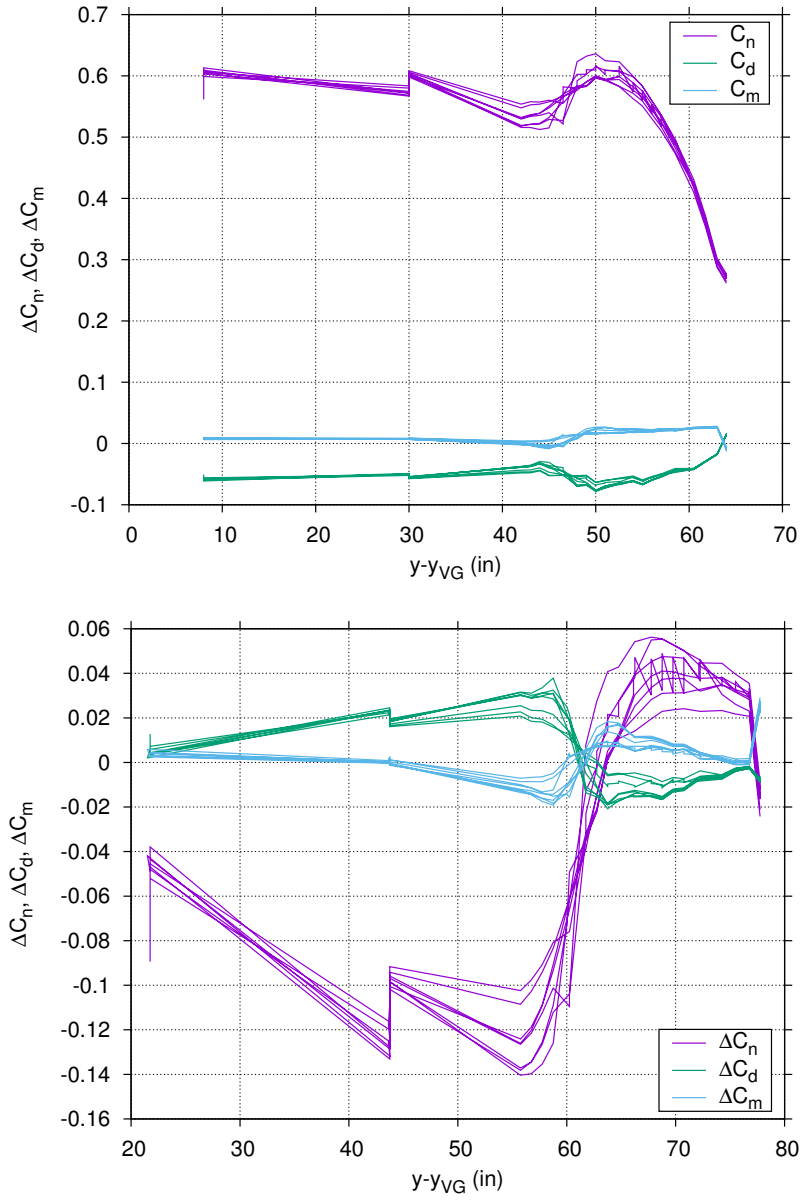

Figure 97. Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.181	6.638	56.992	46.754	41.928	Data
8	25.370	6.649	56.986	46.755	41.963	Data
30	25.096	6.622	57.043	46.746	41.979	Data
30	25.181	6.638	56.992	46.754	41.928	Data
30	24.388	6.587	57.003	46.743	42.014	Data
30	24.994	6.617	57.047	46.744	41.978	Data
30	25.370	6.649	56.986	46.755	41.963	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	24.171	6.599	57.003	46.743	42.014	Data
30	24.982	6.620	57.039	46.747	41.997	Data
30	25.094	6.609	57.000	46.747	42.000	Data
30	24.972	6.604	57.041	46.746	41.997	Data
30	25.166	6.599	57.012	46.745	41.998	Data
42	25.166	6.599	57.012	46.745	41.998	Data
42	25.094	6.609	57.000	46.747	42.000	Data
43	25.166	6.599	57.012	46.745	41.998	Data
43	25.094	6.609	57.000	46.747	42.000	Data
44	25.166	6.599	57.012	46.745	41.998	Data
44	25.094	6.609	57.000	46.747	42.000	Data
45	25.166	6.599	57.012	46.745	41.998	Data
45	25.094	6.609	57.000	46.747	42.000	Data
46.5	25.370	6.649	56.986	46.755	41.963	Data
46.5	25.181	6.638	56.992	46.754	41.928	Data
48	25.096	6.622	57.043	46.746	41.979	Data
48	24.994	6.617	57.047	46.744	41.978	Data
49	25.096	6.622	57.043	46.746	41.979	Data
49	24.994	6.617	57.047	46.744	41.978	Data
50	25.096	6.622	57.043	46.746	41.979	Data
50	24.994	6.617	57.047	46.744	41.978	Data
51	25.096	6.622	57.043	46.746	41.979	Data
51	24.994	6.617	57.047	46.744	41.978	Data
52.5	25.370	6.649	56.986	46.755	41.963	Data
52.5	25.181	6.638	56.992	46.754	41.928	Data
54	24.388	6.587	57.003	46.743	42.014	Data
54	24.171	6.599	57.003	46.743	42.014	Data
55	24.388	6.587	57.003	46.743	42.014	Data
55	24.171	6.599	57.003	46.743	42.014	Data
56	24.388	6.587	57.003	46.743	42.014	Data
56	24.171	6.599	57.003	46.743	42.014	Data
57	24.388	6.587	57.003	46.743	42.014	Data
57	24.171	6.599	57.003	46.743	42.014	Data
58.5	25.370	6.649	56.986	46.755	41.963	Data
58.5	25.181	6.638	56.992	46.754	41.928	Data
60.5	24.982	6.620	57.039	46.747	41.997	Data
60.5	24.972	6.604	57.041	46.746	41.997	Data
61.75	24.982	6.620	57.039	46.747	41.997	Data
61.75	24.972	6.604	57.041	46.746	41.997	Data
63	24.982	6.620	57.039	46.747	41.997	Data
63	24.972	6.604	57.041	46.746	41.997	Data
64	24.982	6.620	57.039	46.747	41.997	Data
64	24.972	6.604	57.041	46.746	41.997	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 475: Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	24.389	6.592	57.004	46.742	42.989	Data
30	24.305	6.591	57.000	46.743	42.989	Data
30	25.031	6.620	57.044	46.745	42.997	Data
30	25.258	6.605	57.044	46.744	42.997	Data
30	25.054	6.619	57.056	46.745	42.998	Data
30	25.141	6.604	57.011	46.746	43.003	Data
30	25.063	6.615	57.050	46.746	42.997	Data
30	25.109	6.609	57.014	46.747	43.004	Data
42	25.141	6.604	57.011	46.746	43.003	Data
42	25.109	6.609	57.014	46.747	43.004	Data
43	25.141	6.604	57.011	46.746	43.003	Data
43	25.109	6.609	57.014	46.747	43.004	Data
44	25.141	6.604	57.011	46.746	43.003	Data
44	25.109	6.609	57.014	46.747	43.004	Data
45	25.141	6.604	57.011	46.746	43.003	Data
45	25.109	6.609	57.014	46.747	43.004	Data
48	25.258	6.605	57.044	46.744	42.997	Data
48	25.031	6.620	57.044	46.745	42.997	Data
49	25.258	6.605	57.044	46.744	42.997	Data
49	25.031	6.620	57.044	46.745	42.997	Data
50	25.258	6.605	57.044	46.744	42.997	Data
50	25.031	6.620	57.044	46.745	42.997	Data
51	25.258	6.605	57.044	46.744	42.997	Data
51	25.031	6.620	57.044	46.745	42.997	Data
54	24.389	6.592	57.004	46.742	42.989	Data
54	24.305	6.591	57.000	46.743	42.989	Data
55	24.389	6.592	57.004	46.742	42.989	Data
55	24.305	6.591	57.000	46.743	42.989	Data
56	24.389	6.592	57.004	46.742	42.989	Data
56	24.305	6.591	57.000	46.743	42.989	Data
57	24.389	6.592	57.004	46.742	42.989	Data
57	24.305	6.591	57.000	46.743	42.989	Data
60.5	25.063	6.615	57.050	46.746	42.997	Data
60.5	25.054	6.619	57.056	46.745	42.998	Data
61.75	25.063	6.615	57.050	46.746	42.997	Data
61.75	25.054	6.619	57.056	46.745	42.998	Data
63	25.063	6.615	57.050	46.746	42.997	Data
63	25.054	6.619	57.056	46.745	42.998	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	25.063	6.615	57.050	46.746	42.997	Data
64	25.054	6.619	57.056	46.745	42.998	Data

Table 476: Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.460	6.624	56.978	46.746	44.010	Data
8	25.740	6.624	56.975	46.747	44.011	Data
8	25.137	6.647	56.982	46.755	44.020	Data
8	25.368	6.640	56.983	46.754	44.020	Data
30	24.713	6.615	56.984	46.747	43.982	Data
30	24.459	6.625	56.976	46.746	43.982	Data
30	25.265	6.640	56.979	46.745	44.003	Data
30	25.095	6.619	57.046	46.745	43.998	Data
30	24.564	6.589	57.002	46.742	44.009	Data
30	25.368	6.640	56.983	46.754	44.020	Data
30	25.343	6.588	56.981	46.745	43.996	Data
30	25.137	6.647	56.982	46.755	44.020	Data
30	24.854	6.580	56.991	46.746	43.995	Data
30	25.019	6.603	57.042	46.744	43.997	Data
30	25.266	6.633	56.982	46.747	44.003	Data
30	25.258	6.590	57.002	46.738	43.999	Data
30	24.493	6.608	57.007	46.742	44.009	Data
30	25.080	6.597	57.020	46.746	44.001	Data
30	25.460	6.624	56.978	46.746	44.010	Data
30	25.740	6.624	56.975	46.747	44.011	Data
30	25.257	6.595	57.002	46.739	44.000	Data
30	25.201	6.607	57.010	46.745	44.001	Data
30	25.018	6.618	57.053	46.746	43.998	Data
30	25.031	6.615	57.051	46.747	43.998	Data
42	25.201	6.607	57.010	46.745	44.001	Data
42	25.258	6.590	57.002	46.738	43.999	Data
42	25.080	6.597	57.020	46.746	44.001	Data
42	25.257	6.595	57.002	46.739	44.000	Data
43	25.201	6.607	57.010	46.745	44.001	Data
43	25.258	6.590	57.002	46.738	43.999	Data
43	25.080	6.597	57.020	46.746	44.001	Data
43	25.257	6.595	57.002	46.739	44.000	Data
44	25.201	6.607	57.010	46.745	44.001	Data
44	25.258	6.590	57.002	46.738	43.999	Data
44	25.080	6.597	57.020	46.746	44.001	Data
44	25.257	6.595	57.002	46.739	44.000	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	25.201	6.607	57.010	46.745	44.001	Data
45	25.258	6.590	57.002	46.738	43.999	Data
45	25.080	6.597	57.020	46.746	44.001	Data
45	25.257	6.595	57.002	46.739	44.000	Data
46.5	25.137	6.647	56.982	46.755	44.020	Data
46.5	25.460	6.624	56.978	46.746	44.010	Data
46.5	25.368	6.640	56.983	46.754	44.020	Data
46.5	25.740	6.624	56.975	46.747	44.011	Data
48	24.713	6.615	56.984	46.747	43.982	Data
48	24.459	6.625	56.976	46.746	43.982	Data
48	25.095	6.619	57.046	46.745	43.998	Data
48	25.019	6.603	57.042	46.744	43.997	Data
49	24.713	6.615	56.984	46.747	43.982	Data
49	24.459	6.625	56.976	46.746	43.982	Data
49	25.095	6.619	57.046	46.745	43.998	Data
49	25.019	6.603	57.042	46.744	43.997	Data
50	24.713	6.615	56.984	46.747	43.982	Data
50	25.095	6.619	57.046	46.745	43.998	Data
50	24.459	6.625	56.976	46.746	43.982	Data
50	25.019	6.603	57.042	46.744	43.997	Data
51	25.095	6.619	57.046	46.745	43.998	Data
51	24.713	6.615	56.984	46.747	43.982	Data
51	24.459	6.625	56.976	46.746	43.982	Data
51	25.019	6.603	57.042	46.744	43.997	Data
52.5	25.137	6.647	56.982	46.755	44.020	Data
52.5	25.460	6.624	56.978	46.746	44.010	Data
52.5	25.740	6.624	56.975	46.747	44.011	Data
52.5	25.368	6.640	56.983	46.754	44.020	Data
54	25.343	6.588	56.981	46.745	43.996	Data
54	24.564	6.589	57.002	46.742	44.009	Data
54	24.493	6.608	57.007	46.742	44.009	Data
54	24.854	6.580	56.991	46.746	43.995	Data
55	25.343	6.588	56.981	46.745	43.996	Data
55	24.564	6.589	57.002	46.742	44.009	Data
55	24.493	6.608	57.007	46.742	44.009	Data
55	24.854	6.580	56.991	46.746	43.995	Data
56	25.343	6.588	56.981	46.745	43.996	Data
56	24.564	6.589	57.002	46.742	44.009	Data
56	24.493	6.608	57.007	46.742	44.009	Data
56	24.854	6.580	56.991	46.746	43.995	Data
57	25.343	6.588	56.981	46.745	43.996	Data
57	24.564	6.589	57.002	46.742	44.009	Data
57	24.493	6.608	57.007	46.742	44.009	Data
57	24.854	6.580	56.991	46.746	43.995	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
58.5	25.460	6.624	56.978	46.746	44.010	Data
58.5	25.137	6.647	56.982	46.755	44.020	Data
58.5	25.740	6.624	56.975	46.747	44.011	Data
58.5	25.368	6.640	56.983	46.754	44.020	Data
60.5	25.265	6.640	56.979	46.745	44.003	Data
60.5	25.018	6.618	57.053	46.746	43.998	Data
60.5	25.031	6.615	57.051	46.747	43.998	Data
60.5	25.266	6.633	56.982	46.747	44.003	Data
61.75	25.018	6.618	57.053	46.746	43.998	Data
61.75	25.031	6.615	57.051	46.747	43.998	Data
61.75	25.266	6.633	56.982	46.747	44.003	Data
61.75	25.265	6.640	56.979	46.745	44.003	Data
63	25.018	6.618	57.053	46.746	43.998	Data
63	25.031	6.615	57.051	46.747	43.998	Data
63	25.266	6.633	56.982	46.747	44.003	Data
63	25.265	6.640	56.979	46.745	44.003	Data
64	25.018	6.618	57.053	46.746	43.998	Data
64	25.265	6.640	56.979	46.745	44.003	Data
64	25.031	6.615	57.051	46.747	43.998	Data
64	25.266	6.633	56.982	46.747	44.003	Data

Table 477: Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.135	6.663	56.988	46.754	45.013	Data
8	25.194	6.637	56.986	46.754	45.012	Data
30	24.950	6.625	57.041	46.746	44.998	Data
30	24.342	6.602	57.008	46.742	45.008	Data
30	25.135	6.663	56.988	46.754	45.013	Data
30	24.072	6.579	57.007	46.743	45.008	Data
30	25.023	6.627	57.059	46.746	44.990	Data
30	24.966	6.597	57.039	46.745	44.998	Data
30	25.194	6.637	56.986	46.754	45.012	Data
30	25.209	6.632	57.048	46.746	44.991	Data
30	25.106	6.599	57.016	46.747	45.007	Data
30	24.868	6.594	57.013	46.746	45.007	Data
42	25.106	6.599	57.016	46.747	45.007	Data
42	24.868	6.594	57.013	46.746	45.007	Data
43	25.106	6.599	57.016	46.747	45.007	Data
43	24.868	6.594	57.013	46.746	45.007	Data
44	25.106	6.599	57.016	46.747	45.007	Data
44	24.868	6.594	57.013	46.746	45.007	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	25.106	6.599	57.016	46.747	45.007	Data
45	24.868	6.594	57.013	46.746	45.007	Data
46.5	25.194	6.637	56.986	46.754	45.012	Data
46.5	25.135	6.663	56.988	46.754	45.013	Data
48	24.950	6.625	57.041	46.746	44.998	Data
48	24.966	6.597	57.039	46.745	44.998	Data
49	24.950	6.625	57.041	46.746	44.998	Data
49	24.966	6.597	57.039	46.745	44.998	Data
50	24.950	6.625	57.041	46.746	44.998	Data
50	24.966	6.597	57.039	46.745	44.998	Data
51	24.950	6.625	57.041	46.746	44.998	Data
51	24.966	6.597	57.039	46.745	44.998	Data
52.5	25.194	6.637	56.986	46.754	45.012	Data
52.5	25.135	6.663	56.988	46.754	45.013	Data
54	24.072	6.579	57.007	46.743	45.008	Data
54	24.342	6.602	57.008	46.742	45.008	Data
55	24.072	6.579	57.007	46.743	45.008	Data
55	24.342	6.602	57.008	46.742	45.008	Data
56	24.072	6.579	57.007	46.743	45.008	Data
56	24.342	6.602	57.008	46.742	45.008	Data
57	24.072	6.579	57.007	46.743	45.008	Data
57	24.342	6.602	57.008	46.742	45.008	Data
58.5	25.135	6.663	56.988	46.754	45.013	Data
58.5	25.194	6.637	56.986	46.754	45.012	Data
60.5	25.023	6.627	57.059	46.746	44.990	Data
60.5	25.209	6.632	57.048	46.746	44.991	Data
61.75	25.023	6.627	57.059	46.746	44.990	Data
61.75	25.209	6.632	57.048	46.746	44.991	Data
63	25.023	6.627	57.059	46.746	44.990	Data
63	25.209	6.632	57.048	46.746	44.991	Data
64	25.023	6.627	57.059	46.746	44.990	Data
64	25.209	6.632	57.048	46.746	44.991	Data

Table 478: Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.287	6.655	56.986	46.753	46.010	Data
8	25.114	6.649	56.985	46.754	46.009	Data
30	25.103	6.624	57.043	46.745	46.011	Data
30	24.141	6.597	57.004	46.744	45.999	Data
30	25.114	6.649	56.985	46.754	46.009	Data
30	25.287	6.655	56.986	46.753	46.010	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.016	6.614	57.040	46.745	46.011	Data
30	24.343	6.601	56.998	46.742	45.999	Data
30	25.179	6.638	57.057	46.746	46.008	Data
30	24.801	6.617	57.062	46.745	46.008	Data
30	24.946	6.601	57.011	46.747	45.990	Data
30	24.866	6.620	57.008	46.746	45.990	Data
42	24.946	6.601	57.011	46.747	45.990	Data
42	24.866	6.620	57.008	46.746	45.990	Data
43	24.946	6.601	57.011	46.747	45.990	Data
43	24.866	6.620	57.008	46.746	45.990	Data
44	24.866	6.620	57.008	46.746	45.990	Data
44	24.946	6.601	57.011	46.747	45.990	Data
45	24.866	6.620	57.008	46.746	45.990	Data
45	24.946	6.601	57.011	46.747	45.990	Data
46.5	25.287	6.655	56.986	46.753	46.010	Data
46.5	25.114	6.649	56.985	46.754	46.009	Data
48	25.103	6.624	57.043	46.745	46.011	Data
48	25.016	6.614	57.040	46.745	46.011	Data
49	25.103	6.624	57.043	46.745	46.011	Data
49	25.016	6.614	57.040	46.745	46.011	Data
50	25.103	6.624	57.043	46.745	46.011	Data
50	25.016	6.614	57.040	46.745	46.011	Data
51	25.103	6.624	57.043	46.745	46.011	Data
51	25.016	6.614	57.040	46.745	46.011	Data
52.5	25.287	6.655	56.986	46.753	46.010	Data
52.5	25.114	6.649	56.985	46.754	46.009	Data
54	24.141	6.597	57.004	46.744	45.999	Data
54	24.343	6.601	56.998	46.742	45.999	Data
55	24.141	6.597	57.004	46.744	45.999	Data
55	24.343	6.601	56.998	46.742	45.999	Data
56	24.141	6.597	57.004	46.744	45.999	Data
56	24.343	6.601	56.998	46.742	45.999	Data
57	24.141	6.597	57.004	46.744	45.999	Data
57	24.343	6.601	56.998	46.742	45.999	Data
58.5	25.287	6.655	56.986	46.753	46.010	Data
58.5	25.114	6.649	56.985	46.754	46.009	Data
60.5	24.801	6.617	57.062	46.745	46.008	Data
60.5	25.179	6.638	57.057	46.746	46.008	Data
61.75	24.801	6.617	57.062	46.745	46.008	Data
61.75	25.179	6.638	57.057	46.746	46.008	Data
63	24.801	6.617	57.062	46.745	46.008	Data
63	25.179	6.638	57.057	46.746	46.008	Data
64	25.179	6.638	57.057	46.746	46.008	Data
64	24.801	6.617	57.062	46.745	46.008	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 479: Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.933	6.634	56.984	46.753	46.516	Data
8	25.302	6.661	56.982	46.755	46.516	Data
30	24.933	6.634	56.984	46.753	46.516	Data
30	25.302	6.661	56.982	46.755	46.516	Data
46.5	24.933	6.634	56.984	46.753	46.516	Data
46.5	25.302	6.661	56.982	46.755	46.516	Data
52.5	24.933	6.634	56.984	46.753	46.516	Data
52.5	25.302	6.661	56.982	46.755	46.516	Data
58.5	25.302	6.661	56.982	46.755	46.516	Data
58.5	24.933	6.634	56.984	46.753	46.516	Data

Table 480: Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.334	6.647	56.988	46.754	46.990	Data
8	25.144	6.646	56.996	46.753	46.990	Data
30	25.089	6.615	57.043	46.744	47.012	Data
30	24.318	6.606	57.008	46.743	46.999	Data
30	24.984	6.619	57.046	46.745	47.012	Data
30	25.334	6.647	56.988	46.754	46.990	Data
30	24.968	6.595	57.002	46.745	47.001	Data
30	24.107	6.587	57.004	46.744	46.998	Data
30	24.935	6.621	57.035	46.745	47.006	Data
30	25.144	6.646	56.996	46.753	46.990	Data
30	24.664	6.611	57.006	46.747	47.001	Data
30	24.925	6.623	57.042	46.748	47.007	Data
42	24.968	6.595	57.002	46.745	47.001	Data
42	24.664	6.611	57.006	46.747	47.001	Data
43	24.968	6.595	57.002	46.745	47.001	Data
43	24.664	6.611	57.006	46.747	47.001	Data
44	24.968	6.595	57.002	46.745	47.001	Data
44	24.664	6.611	57.006	46.747	47.001	Data
45	24.664	6.611	57.006	46.747	47.001	Data
45	24.968	6.595	57.002	46.745	47.001	Data
46.5	25.334	6.647	56.988	46.754	46.990	Data
46.5	25.144	6.646	56.996	46.753	46.990	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	25.089	6.615	57.043	46.744	47.012	Data
48	24.984	6.619	57.046	46.745	47.012	Data
49	25.089	6.615	57.043	46.744	47.012	Data
49	24.984	6.619	57.046	46.745	47.012	Data
50	25.089	6.615	57.043	46.744	47.012	Data
50	24.984	6.619	57.046	46.745	47.012	Data
51	25.089	6.615	57.043	46.744	47.012	Data
51	24.984	6.619	57.046	46.745	47.012	Data
52.5	25.334	6.647	56.988	46.754	46.990	Data
52.5	25.144	6.646	56.996	46.753	46.990	Data
54	24.318	6.606	57.008	46.743	46.999	Data
54	24.107	6.587	57.004	46.744	46.998	Data
55	24.318	6.606	57.008	46.743	46.999	Data
55	24.107	6.587	57.004	46.744	46.998	Data
56	24.318	6.606	57.008	46.743	46.999	Data
56	24.107	6.587	57.004	46.744	46.998	Data
57	24.318	6.606	57.008	46.743	46.999	Data
57	24.107	6.587	57.004	46.744	46.998	Data
58.5	25.334	6.647	56.988	46.754	46.990	Data
58.5	25.144	6.646	56.996	46.753	46.990	Data
60.5	24.925	6.623	57.042	46.748	47.007	Data
60.5	24.935	6.621	57.035	46.745	47.006	Data
61.75	24.925	6.623	57.042	46.748	47.007	Data
61.75	24.935	6.621	57.035	46.745	47.006	Data
63	24.935	6.621	57.035	46.745	47.006	Data
63	24.925	6.623	57.042	46.748	47.007	Data
64	24.935	6.621	57.035	46.745	47.006	Data
64	24.925	6.623	57.042	46.748	47.007	Data

Table 481: Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.080	6.633	56.989	46.757	47.494	Data
8	24.996	6.666	56.988	46.755	47.494	Data
30	25.080	6.633	56.989	46.757	47.494	Data
30	24.996	6.666	56.988	46.755	47.494	Data
46.5	24.996	6.666	56.988	46.755	47.494	Data
46.5	25.080	6.633	56.989	46.757	47.494	Data
52.5	24.996	6.666	56.988	46.755	47.494	Data
52.5	25.080	6.633	56.989	46.757	47.494	Data
58.5	24.996	6.666	56.988	46.755	47.494	Data
58.5	25.080	6.633	56.989	46.757	47.494	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 482: Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.188	6.629	56.990	46.754	47.987	Data
8	25.178	6.657	56.989	46.755	47.986	Data
30	25.325	6.617	57.045	46.745	47.994	Data
30	25.188	6.629	56.990	46.754	47.987	Data
30	24.257	6.587	57.005	46.743	48.037	Data
30	24.187	6.583	57.007	46.742	48.037	Data
30	25.178	6.657	56.989	46.755	47.986	Data
30	25.062	6.621	57.044	46.745	47.994	Data
30	24.798	6.586	57.008	46.746	48.002	Data
30	24.993	6.625	57.018	46.746	47.987	Data
30	24.719	6.599	57.011	46.747	48.002	Data
30	24.827	6.623	57.003	46.746	47.988	Data
42	24.798	6.586	57.008	46.746	48.002	Data
42	24.719	6.599	57.011	46.747	48.002	Data
43	24.798	6.586	57.008	46.746	48.002	Data
43	24.719	6.599	57.011	46.747	48.002	Data
44	24.798	6.586	57.008	46.746	48.002	Data
44	24.719	6.599	57.011	46.747	48.002	Data
45	24.798	6.586	57.008	46.746	48.002	Data
45	24.719	6.599	57.011	46.747	48.002	Data
46.5	25.188	6.629	56.990	46.754	47.987	Data
46.5	25.178	6.657	56.989	46.755	47.986	Data
48	25.325	6.617	57.045	46.745	47.994	Data
48	25.062	6.621	57.044	46.745	47.994	Data
49	25.325	6.617	57.045	46.745	47.994	Data
49	25.062	6.621	57.044	46.745	47.994	Data
50	25.325	6.617	57.045	46.745	47.994	Data
50	25.062	6.621	57.044	46.745	47.994	Data
51	25.325	6.617	57.045	46.745	47.994	Data
51	25.062	6.621	57.044	46.745	47.994	Data
52.5	25.188	6.629	56.990	46.754	47.987	Data
52.5	25.178	6.657	56.989	46.755	47.986	Data
54	24.257	6.587	57.005	46.743	48.037	Data
54	24.187	6.583	57.007	46.742	48.037	Data
55	24.257	6.587	57.005	46.743	48.037	Data
55	24.187	6.583	57.007	46.742	48.037	Data
56	24.187	6.583	57.007	46.742	48.037	Data
56	24.257	6.587	57.005	46.743	48.037	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	24.257	6.587	57.005	46.743	48.037	Data
57	24.187	6.583	57.007	46.742	48.037	Data
58.5	25.188	6.629	56.990	46.754	47.987	Data
58.5	25.178	6.657	56.989	46.755	47.986	Data
60.5	24.827	6.623	57.003	46.746	47.988	Data
60.5	24.993	6.625	57.018	46.746	47.987	Data
61.75	24.827	6.623	57.003	46.746	47.988	Data
61.75	24.993	6.625	57.018	46.746	47.987	Data
63	24.827	6.623	57.003	46.746	47.988	Data
63	24.993	6.625	57.018	46.746	47.987	Data
64	24.827	6.623	57.003	46.746	47.988	Data
64	24.993	6.625	57.018	46.746	47.987	Data

Table 483: Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.232	6.639	56.990	46.755	49.002	Data
8	25.178	6.646	56.991	46.754	49.003	Data
30	25.060	6.613	57.042	46.744	49.005	Data
30	24.323	6.601	57.003	46.74	49.026	Data
30	25.232	6.639	56.990	46.755	49.002	Data
30	25.028	6.618	57.040	46.746	49.005	Data
30	24.285	6.596	57.009	46.742	49.024	Data
30	25.178	6.646	56.991	46.754	49.003	Data
30	24.890	6.595	57.007	46.745	49.005	Data
30	25.022	6.616	57.020	46.746	49.014	Data
30	25.093	6.618	57.020	46.747	49.014	Data
30	24.955	6.602	57.007	46.746	49.006	Data
42	24.890	6.595	57.007	46.745	49.005	Data
42	24.955	6.602	57.007	46.746	49.006	Data
43	24.890	6.595	57.007	46.745	49.005	Data
43	24.955	6.602	57.007	46.746	49.006	Data
44	24.890	6.595	57.007	46.745	49.005	Data
44	24.955	6.602	57.007	46.746	49.006	Data
45	24.890	6.595	57.007	46.745	49.005	Data
45	24.955	6.602	57.007	46.746	49.006	Data
46.5	25.232	6.639	56.990	46.755	49.002	Data
46.5	25.178	6.646	56.991	46.754	49.003	Data
48	25.028	6.618	57.040	46.746	49.005	Data
48	25.060	6.613	57.042	46.744	49.005	Data
49	25.028	6.618	57.040	46.746	49.005	Data
49	25.060	6.613	57.042	46.744	49.005	Data

Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	25.028	6.618	57.040	46.746	49.005	Data
50	25.060	6.613	57.042	46.744	49.005	Data
51	25.028	6.618	57.040	46.746	49.005	Data
51	25.060	6.613	57.042	46.744	49.005	Data
52.5	25.232	6.639	56.990	46.755	49.002	Data
52.5	25.178	6.646	56.991	46.754	49.003	Data
54	24.285	6.596	57.009	46.742	49.024	Data
54	24.323	6.601	57.003	46.74	49.026	Data
55	24.285	6.596	57.009	46.742	49.024	Data
55	24.323	6.601	57.003	46.74	49.026	Data
56	24.285	6.596	57.009	46.742	49.024	Data
56	24.323	6.601	57.003	46.74	49.026	Data
57	24.285	6.596	57.009	46.742	49.024	Data
57	24.323	6.601	57.003	46.74	49.026	Data
58.5	25.232	6.639	56.990	46.755	49.002	Data
58.5	25.178	6.646	56.991	46.754	49.003	Data
60.5	25.093	6.618	57.020	46.747	49.014	Data
60.5	25.022	6.616	57.020	46.746	49.014	Data
61.75	25.093	6.618	57.020	46.747	49.014	Data
61.75	25.022	6.616	57.020	46.746	49.014	Data
63	25.022	6.616	57.020	46.746	49.014	Data
63	25.093	6.618	57.020	46.747	49.014	Data
64	25.022	6.616	57.020	46.746	49.014	Data
64	25.093	6.618	57.020	46.747	49.014	Data

Table 484: Vertical sweep VG at 46.5 (in), q=25 RO-tip VG AoA 4 VG at span y=46.5 (in)

D.45. Vertical VG vortex sweep at y=52.5 (in), q=25, α_{VG}=4, α_W=7, RO-tip

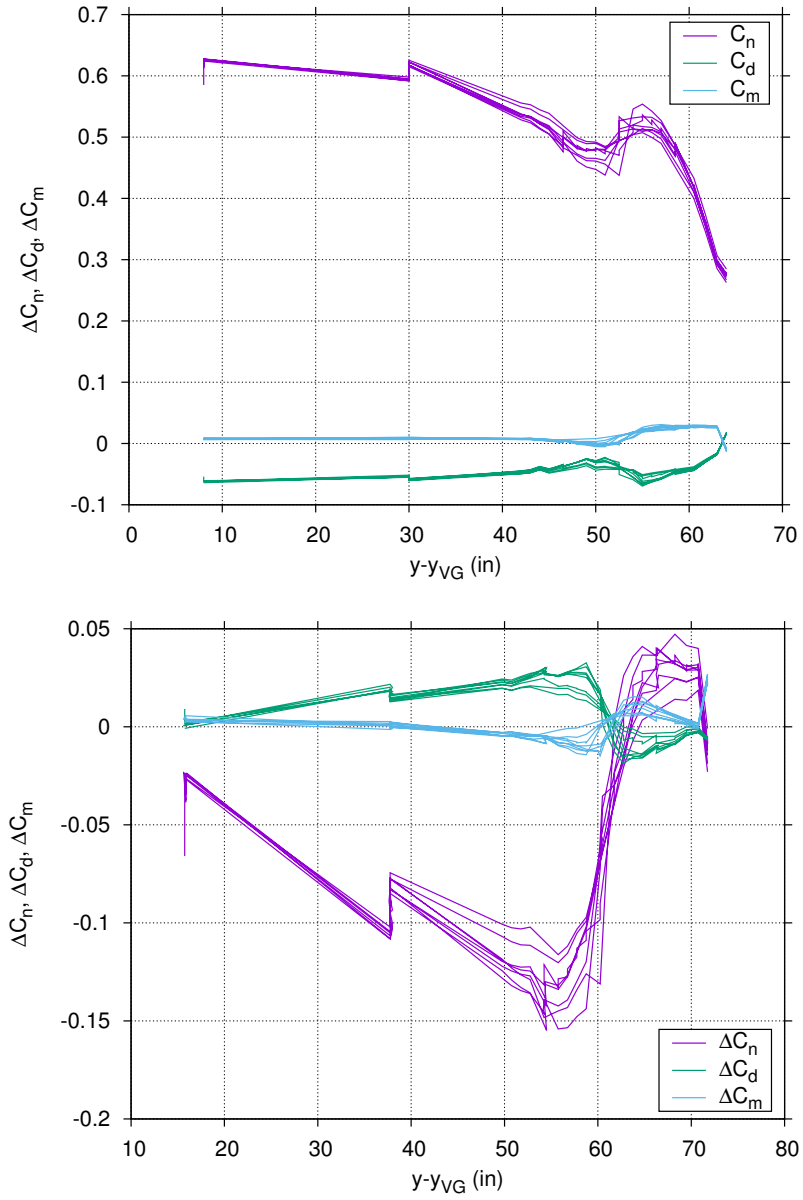

Figure 98. Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.071	6.622	57.051	52.75	42.002	Data
30	25.222	6.623	57.052	52.749	42.009	Data
30	25.280	6.641	57.003	52.753	41.999	Data
30	24.698	6.596	57.001	52.747	42.011	Data
30	24.671	6.599	57.009	52.747	42.011	Data
30	25.053	6.653	57.007	52.754	41.998	Data
30	25.113	6.617	57.005	52.753	42.006	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.222	6.602	57.001	52.753	42.006	Data
42	25.113	6.617	57.005	52.753	42.006	Data
42	25.222	6.602	57.001	52.753	42.006	Data
43	25.113	6.617	57.005	52.753	42.006	Data
43	25.222	6.602	57.001	52.753	42.006	Data
44	25.113	6.617	57.005	52.753	42.006	Data
44	25.222	6.602	57.001	52.753	42.006	Data
45	25.113	6.617	57.005	52.753	42.006	Data
45	25.222	6.602	57.001	52.753	42.006	Data
48	25.071	6.622	57.051	52.75	42.002	Data
48	25.222	6.623	57.052	52.749	42.009	Data
49	25.071	6.622	57.051	52.75	42.002	Data
49	25.222	6.623	57.052	52.749	42.009	Data
50	25.071	6.622	57.051	52.75	42.002	Data
50	25.222	6.623	57.052	52.749	42.009	Data
51	25.071	6.622	57.051	52.75	42.002	Data
51	25.222	6.623	57.052	52.749	42.009	Data
54	24.698	6.596	57.001	52.747	42.011	Data
54	24.671	6.599	57.009	52.747	42.011	Data
55	24.698	6.596	57.001	52.747	42.011	Data
55	24.671	6.599	57.009	52.747	42.011	Data
56	24.698	6.596	57.001	52.747	42.011	Data
56	24.671	6.599	57.009	52.747	42.011	Data
57	24.698	6.596	57.001	52.747	42.011	Data
57	24.671	6.599	57.009	52.747	42.011	Data
60.5	25.280	6.641	57.003	52.753	41.999	Data
60.5	25.053	6.653	57.007	52.754	41.998	Data
61.75	25.280	6.641	57.003	52.753	41.999	Data
61.75	25.053	6.653	57.007	52.754	41.998	Data
63	25.280	6.641	57.003	52.753	41.999	Data
63	25.053	6.653	57.007	52.754	41.998	Data
64	25.053	6.653	57.007	52.754	41.998	Data
64	25.280	6.641	57.003	52.753	41.999	Data

Table 485: Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.088	6.637	57.049	52.748	43.008	Data
30	25.179	6.616	57.052	52.748	43.008	Data
30	25.548	6.650	57.001	52.755	43.000	Data
30	24.443	6.595	57.005	52.749	43.000	Data
30	24.690	6.605	57.001	52.748	42.999	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.361	6.649	57.003	52.754	43.000	Data
30	25.116	6.588	57.002	52.752	43.001	Data
30	24.991	6.604	56.996	52.752	43.001	Data
42	25.116	6.588	57.002	52.752	43.001	Data
42	24.991	6.604	56.996	52.752	43.001	Data
43	25.116	6.588	57.002	52.752	43.001	Data
43	24.991	6.604	56.996	52.752	43.001	Data
44	25.116	6.588	57.002	52.752	43.001	Data
44	24.991	6.604	56.996	52.752	43.001	Data
45	25.116	6.588	57.002	52.752	43.001	Data
45	24.991	6.604	56.996	52.752	43.001	Data
48	25.179	6.616	57.052	52.748	43.008	Data
48	25.088	6.637	57.049	52.748	43.008	Data
49	25.179	6.616	57.052	52.748	43.008	Data
49	25.088	6.637	57.049	52.748	43.008	Data
50	25.179	6.616	57.052	52.748	43.008	Data
50	25.088	6.637	57.049	52.748	43.008	Data
51	25.179	6.616	57.052	52.748	43.008	Data
51	25.088	6.637	57.049	52.748	43.008	Data
54	24.443	6.595	57.005	52.749	43.000	Data
54	24.690	6.605	57.001	52.748	42.999	Data
55	24.443	6.595	57.005	52.749	43.000	Data
55	24.690	6.605	57.001	52.748	42.999	Data
56	24.443	6.595	57.005	52.749	43.000	Data
56	24.690	6.605	57.001	52.748	42.999	Data
57	24.443	6.595	57.005	52.749	43.000	Data
57	24.690	6.605	57.001	52.748	42.999	Data
60.5	25.548	6.650	57.001	52.755	43.000	Data
60.5	25.361	6.649	57.003	52.754	43.000	Data
61.75	25.548	6.650	57.001	52.755	43.000	Data
61.75	25.361	6.649	57.003	52.754	43.000	Data
63	25.548	6.650	57.001	52.755	43.000	Data
63	25.361	6.649	57.003	52.754	43.000	Data
64	25.548	6.650	57.001	52.755	43.000	Data
64	25.361	6.649	57.003	52.754	43.000	Data

Table 486: Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.670	6.625	56.979	52.752	44.004	Data
8	25.741	6.629	56.983	52.752	44.005	Data
8	25.300	6.633	56.984	52.754	44.018	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.180	6.668	56.984	52.756	44.019	Data
30	24.564	6.624	56.982	52.749	43.986	Data
30	25.191	6.629	57.053	52.748	44.007	Data
30	25.198	6.612	57.049	52.748	44.007	Data
30	24.488	6.612	56.976	52.748	43.986	Data
30	24.763	6.619	57.004	52.748	44.009	Data
30	25.180	6.668	56.984	52.756	44.019	Data
30	25.094	6.585	56.983	52.748	43.995	Data
30	25.484	6.654	57.004	52.754	44.003	Data
30	25.741	6.629	56.983	52.752	44.005	Data
30	24.949	6.606	56.999	52.752	43.993	Data
30	25.645	6.654	56.992	52.751	44.003	Data
30	25.229	6.638	57.006	52.754	44.003	Data
30	25.330	6.599	57.011	52.755	43.998	Data
30	25.080	6.576	56.981	52.747	43.996	Data
30	25.670	6.625	56.979	52.752	44.004	Data
30	24.475	6.594	57.004	52.748	44.009	Data
30	24.830	6.589	57.009	52.753	43.999	Data
30	25.300	6.633	56.984	52.754	44.018	Data
30	25.418	6.654	56.982	52.752	44.003	Data
30	24.934	6.597	57.000	52.752	43.992	Data
42	24.949	6.606	56.999	52.752	43.993	Data
42	24.934	6.597	57.000	52.752	43.992	Data
42	25.330	6.599	57.011	52.755	43.998	Data
42	24.830	6.589	57.009	52.753	43.999	Data
43	24.949	6.606	56.999	52.752	43.993	Data
43	24.934	6.597	57.000	52.752	43.992	Data
43	25.330	6.599	57.011	52.755	43.998	Data
43	24.830	6.589	57.009	52.753	43.999	Data
44	24.949	6.606	56.999	52.752	43.993	Data
44	24.934	6.597	57.000	52.752	43.992	Data
44	25.330	6.599	57.011	52.755	43.998	Data
44	24.830	6.589	57.009	52.753	43.999	Data
45	24.949	6.606	56.999	52.752	43.993	Data
45	24.934	6.597	57.000	52.752	43.992	Data
45	25.330	6.599	57.011	52.755	43.998	Data
45	24.830	6.589	57.009	52.753	43.999	Data
46.5	25.180	6.668	56.984	52.756	44.019	Data
46.5	25.741	6.629	56.983	52.752	44.005	Data
46.5	25.300	6.633	56.984	52.754	44.018	Data
46.5	25.670	6.625	56.979	52.752	44.004	Data
48	25.191	6.629	57.053	52.748	44.007	Data
48	24.488	6.612	56.976	52.748	43.986	Data
48	24.564	6.624	56.982	52.749	43.986	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	25.198	6.612	57.049	52.748	44.007	Data
49	25.191	6.629	57.053	52.748	44.007	Data
49	24.488	6.612	56.976	52.748	43.986	Data
49	24.564	6.624	56.982	52.749	43.986	Data
49	25.198	6.612	57.049	52.748	44.007	Data
50	25.191	6.629	57.053	52.748	44.007	Data
50	24.488	6.612	56.976	52.748	43.986	Data
50	24.564	6.624	56.982	52.749	43.986	Data
50	25.198	6.612	57.049	52.748	44.007	Data
51	25.191	6.629	57.053	52.748	44.007	Data
51	24.488	6.612	56.976	52.748	43.986	Data
51	25.198	6.612	57.049	52.748	44.007	Data
51	24.564	6.624	56.982	52.749	43.986	Data
52.5	25.180	6.668	56.984	52.756	44.019	Data
52.5	25.741	6.629	56.983	52.752	44.005	Data
52.5	25.670	6.625	56.979	52.752	44.004	Data
52.5	25.300	6.633	56.984	52.754	44.018	Data
54	25.094	6.585	56.983	52.748	43.995	Data
54	24.475	6.594	57.004	52.748	44.009	Data
54	25.080	6.576	56.981	52.747	43.996	Data
54	24.763	6.619	57.004	52.748	44.009	Data
55	25.094	6.585	56.983	52.748	43.995	Data
55	24.475	6.594	57.004	52.748	44.009	Data
55	25.080	6.576	56.981	52.747	43.996	Data
55	24.763	6.619	57.004	52.748	44.009	Data
56	25.094	6.585	56.983	52.748	43.995	Data
56	24.475	6.594	57.004	52.748	44.009	Data
56	25.080	6.576	56.981	52.747	43.996	Data
56	24.763	6.619	57.004	52.748	44.009	Data
57	25.094	6.585	56.983	52.748	43.995	Data
57	24.475	6.594	57.004	52.748	44.009	Data
57	25.080	6.576	56.981	52.747	43.996	Data
57	24.763	6.619	57.004	52.748	44.009	Data
58.5	25.180	6.668	56.984	52.756	44.019	Data
58.5	25.300	6.633	56.984	52.754	44.018	Data
58.5	25.741	6.629	56.983	52.752	44.005	Data
58.5	25.670	6.625	56.979	52.752	44.004	Data
60.5	25.229	6.638	57.006	52.754	44.003	Data
60.5	25.645	6.654	56.992	52.751	44.003	Data
60.5	25.484	6.654	57.004	52.754	44.003	Data
60.5	25.418	6.654	56.982	52.752	44.003	Data
61.75	25.645	6.654	56.992	52.751	44.003	Data
61.75	25.229	6.638	57.006	52.754	44.003	Data
61.75	25.484	6.654	57.004	52.754	44.003	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	25.418	6.654	56.982	52.752	44.003	Data
63	25.645	6.654	56.992	52.751	44.003	Data
63	25.484	6.654	57.004	52.754	44.003	Data
63	25.229	6.638	57.006	52.754	44.003	Data
63	25.418	6.654	56.982	52.752	44.003	Data
64	25.645	6.654	56.992	52.751	44.003	Data
64	25.418	6.654	56.982	52.752	44.003	Data
64	25.229	6.638	57.006	52.754	44.003	Data
64	25.484	6.654	57.004	52.754	44.003	Data

Table 487: Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.172	6.642	56.984	52.755	44.996	Data
8	25.089	6.670	56.984	52.754	44.996	Data
30	25.089	6.670	56.984	52.754	44.996	Data
30	25.172	6.642	56.984	52.755	44.996	Data
30	24.616	6.606	57.005	52.746	45.011	Data
30	25.319	6.645	57.007	52.754	45.005	Data
30	24.331	6.583	56.999	52.746	45.011	Data
30	25.132	6.617	57.044	52.749	44.994	Data
30	25.048	6.614	56.998	52.753	45.002	Data
30	25.310	6.623	57.049	52.749	44.994	Data
30	25.459	6.639	57.009	52.754	45.005	Data
30	24.979	6.589	56.996	52.753	45.002	Data
42	25.048	6.614	56.998	52.753	45.002	Data
42	24.979	6.589	56.996	52.753	45.002	Data
43	24.979	6.589	56.996	52.753	45.002	Data
43	25.048	6.614	56.998	52.753	45.002	Data
44	24.979	6.589	56.996	52.753	45.002	Data
44	25.048	6.614	56.998	52.753	45.002	Data
45	24.979	6.589	56.996	52.753	45.002	Data
45	25.048	6.614	56.998	52.753	45.002	Data
46.5	25.089	6.670	56.984	52.754	44.996	Data
46.5	25.172	6.642	56.984	52.755	44.996	Data
48	25.310	6.623	57.049	52.749	44.994	Data
48	25.132	6.617	57.044	52.749	44.994	Data
49	25.310	6.623	57.049	52.749	44.994	Data
49	25.132	6.617	57.044	52.749	44.994	Data
50	25.310	6.623	57.049	52.749	44.994	Data
50	25.132	6.617	57.044	52.749	44.994	Data
51	25.310	6.623	57.049	52.749	44.994	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
51	25.132	6.617	57.044	52.749	44.994	Data
52.5	25.089	6.670	56.984	52.754	44.996	Data
52.5	25.172	6.642	56.984	52.755	44.996	Data
54	24.331	6.583	56.999	52.746	45.011	Data
54	24.616	6.606	57.005	52.746	45.011	Data
55	24.331	6.583	56.999	52.746	45.011	Data
55	24.616	6.606	57.005	52.746	45.011	Data
56	24.331	6.583	56.999	52.746	45.011	Data
56	24.616	6.606	57.005	52.746	45.011	Data
57	24.331	6.583	56.999	52.746	45.011	Data
57	24.616	6.606	57.005	52.746	45.011	Data
58.5	25.172	6.642	56.984	52.755	44.996	Data
58.5	25.089	6.670	56.984	52.754	44.996	Data
60.5	25.459	6.639	57.009	52.754	45.005	Data
60.5	25.319	6.645	57.007	52.754	45.005	Data
61.75	25.459	6.639	57.009	52.754	45.005	Data
61.75	25.319	6.645	57.007	52.754	45.005	Data
63	25.459	6.639	57.009	52.754	45.005	Data
63	25.319	6.645	57.007	52.754	45.005	Data
64	25.459	6.639	57.009	52.754	45.005	Data
64	25.319	6.645	57.007	52.754	45.005	Data

Table 488: Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.781	6.648	56.992	52.755	45.982	Data
8	24.789	6.644	56.986	52.754	45.982	Data
30	25.145	6.622	57.041	52.749	46.021	Data
30	25.488	6.652	57.007	52.754	46.038	Data
30	24.904	6.626	57.042	52.748	46.021	Data
30	25.085	6.635	57.003	52.756	46.038	Data
30	24.781	6.648	56.992	52.755	45.982	Data
30	24.335	6.600	57.011	52.747	46.031	Data
30	24.365	6.584	57.005	52.748	46.031	Data
30	25.137	6.605	56.999	52.753	45.998	Data
30	24.988	6.595	57.003	52.753	45.998	Data
30	24.789	6.644	56.986	52.754	45.982	Data
42	25.137	6.605	56.999	52.753	45.998	Data
42	24.988	6.595	57.003	52.753	45.998	Data
43	25.137	6.605	56.999	52.753	45.998	Data
43	24.988	6.595	57.003	52.753	45.998	Data
44	25.137	6.605	56.999	52.753	45.998	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	24.988	6.595	57.003	52.753	45.998	Data
45	25.137	6.605	56.999	52.753	45.998	Data
45	24.988	6.595	57.003	52.753	45.998	Data
46.5	24.789	6.644	56.986	52.754	45.982	Data
46.5	24.781	6.648	56.992	52.755	45.982	Data
48	24.904	6.626	57.042	52.748	46.021	Data
48	25.145	6.622	57.041	52.749	46.021	Data
49	24.904	6.626	57.042	52.748	46.021	Data
49	25.145	6.622	57.041	52.749	46.021	Data
50	24.904	6.626	57.042	52.748	46.021	Data
50	25.145	6.622	57.041	52.749	46.021	Data
51	24.904	6.626	57.042	52.748	46.021	Data
51	25.145	6.622	57.041	52.749	46.021	Data
52.5	24.781	6.648	56.992	52.755	45.982	Data
52.5	24.789	6.644	56.986	52.754	45.982	Data
54	24.365	6.584	57.005	52.748	46.031	Data
54	24.335	6.600	57.011	52.747	46.031	Data
55	24.365	6.584	57.005	52.748	46.031	Data
55	24.335	6.600	57.011	52.747	46.031	Data
56	24.365	6.584	57.005	52.748	46.031	Data
56	24.335	6.600	57.011	52.747	46.031	Data
57	24.365	6.584	57.005	52.748	46.031	Data
57	24.335	6.600	57.011	52.747	46.031	Data
58.5	24.781	6.648	56.992	52.755	45.982	Data
58.5	24.789	6.644	56.986	52.754	45.982	Data
60.5	25.488	6.652	57.007	52.754	46.038	Data
60.5	25.085	6.635	57.003	52.756	46.038	Data
61.75	25.488	6.652	57.007	52.754	46.038	Data
61.75	25.085	6.635	57.003	52.756	46.038	Data
63	25.488	6.652	57.007	52.754	46.038	Data
63	25.085	6.635	57.003	52.756	46.038	Data
64	25.488	6.652	57.007	52.754	46.038	Data
64	25.085	6.635	57.003	52.756	46.038	Data

Table 489: Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.996	6.642	56.988	52.754	46.508	Data
8	24.871	6.660	56.986	52.754	46.508	Data
30	24.871	6.660	56.986	52.754	46.508	Data
30	24.996	6.642	56.988	52.754	46.508	Data
46.5	24.871	6.660	56.986	52.754	46.508	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	24.996	6.642	56.988	52.754	46.508	Data
52.5	24.871	6.660	56.986	52.754	46.508	Data
52.5	24.996	6.642	56.988	52.754	46.508	Data
58.5	24.996	6.642	56.988	52.754	46.508	Data
58.5	24.871	6.660	56.986	52.754	46.508	Data

Table 490: Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.852	6.651	56.984	52.754	47.007	Data
8	24.902	6.666	56.988	52.754	47.006	Data
30	24.969	6.591	57.042	52.748	46.997	Data
30	25.160	6.611	57.047	52.749	46.997	Data
30	24.270	6.605	57.003	52.746	47.025	Data
30	24.852	6.651	56.984	52.754	47.007	Data
30	25.352	6.646	57.003	52.755	46.988	Data
30	24.902	6.666	56.988	52.754	47.006	Data
30	24.604	6.590	57.002	52.746	47.026	Data
30	25.117	6.609	57.003	52.752	46.997	Data
30	25.193	6.642	57.010	52.755	46.988	Data
30	24.955	6.605	57.003	52.753	46.998	Data
42	25.117	6.609	57.003	52.752	46.997	Data
42	24.955	6.605	57.003	52.753	46.998	Data
43	25.117	6.609	57.003	52.752	46.997	Data
43	24.955	6.605	57.003	52.753	46.998	Data
44	25.117	6.609	57.003	52.752	46.997	Data
44	24.955	6.605	57.003	52.753	46.998	Data
45	25.117	6.609	57.003	52.752	46.997	Data
45	24.955	6.605	57.003	52.753	46.998	Data
46.5	24.902	6.666	56.988	52.754	47.006	Data
46.5	24.852	6.651	56.984	52.754	47.007	Data
48	25.160	6.611	57.047	52.749	46.997	Data
48	24.969	6.591	57.042	52.748	46.997	Data
49	25.160	6.611	57.047	52.749	46.997	Data
49	24.969	6.591	57.042	52.748	46.997	Data
50	25.160	6.611	57.047	52.749	46.997	Data
50	24.969	6.591	57.042	52.748	46.997	Data
51	25.160	6.611	57.047	52.749	46.997	Data
51	24.969	6.591	57.042	52.748	46.997	Data
52.5	24.852	6.651	56.984	52.754	47.007	Data
52.5	24.902	6.666	56.988	52.754	47.006	Data
54	24.604	6.590	57.002	52.746	47.026	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
54	24.270	6.605	57.003	52.746	47.025	Data
55	24.604	6.590	57.002	52.746	47.026	Data
55	24.270	6.605	57.003	52.746	47.025	Data
56	24.604	6.590	57.002	52.746	47.026	Data
56	24.270	6.605	57.003	52.746	47.025	Data
57	24.604	6.590	57.002	52.746	47.026	Data
57	24.270	6.605	57.003	52.746	47.025	Data
58.5	24.852	6.651	56.984	52.754	47.007	Data
58.5	24.902	6.666	56.988	52.754	47.006	Data
60.5	25.193	6.642	57.010	52.755	46.988	Data
60.5	25.352	6.646	57.003	52.755	46.988	Data
61.75	25.193	6.642	57.010	52.755	46.988	Data
61.75	25.352	6.646	57.003	52.755	46.988	Data
63	25.193	6.642	57.010	52.755	46.988	Data
63	25.352	6.646	57.003	52.755	46.988	Data
64	25.352	6.646	57.003	52.755	46.988	Data
64	25.193	6.642	57.010	52.755	46.988	Data

Table 491: Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.913	6.652	56.987	52.754	47.509	Data
8	24.991	6.676	56.987	52.754	47.510	Data
30	24.991	6.676	56.987	52.754	47.510	Data
30	24.913	6.652	56.987	52.754	47.509	Data
46.5	24.991	6.676	56.987	52.754	47.510	Data
46.5	24.913	6.652	56.987	52.754	47.509	Data
52.5	24.991	6.676	56.987	52.754	47.510	Data
52.5	24.913	6.652	56.987	52.754	47.509	Data
58.5	24.991	6.676	56.987	52.754	47.510	Data
58.5	24.913	6.652	56.987	52.754	47.509	Data

Table 492: Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.968	6.660	56.985	52.754	47.992	Data
8	24.908	6.648	56.983	52.754	47.992	Data
30	25.254	6.621	57.048	52.749	48.009	Data
30	25.293	6.604	57.045	52.748	48.009	Data
30	24.485	6.605	56.997	52.748	48.015	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	24.968	6.660	56.985	52.754	47.992	Data
30	24.908	6.648	56.983	52.754	47.992	Data
30	25.261	6.630	57.001	52.753	48.031	Data
30	24.934	6.626	57.005	52.753	47.998	Data
30	24.740	6.597	57.000	52.746	48.015	Data
30	25.029	6.582	57.006	52.752	47.999	Data
30	25.298	6.648	57.005	52.753	48.030	Data
42	25.029	6.582	57.006	52.752	47.999	Data
42	24.934	6.626	57.005	52.753	47.998	Data
43	25.029	6.582	57.006	52.752	47.999	Data
43	24.934	6.626	57.005	52.753	47.998	Data
44	25.029	6.582	57.006	52.752	47.999	Data
44	24.934	6.626	57.005	52.753	47.998	Data
45	25.029	6.582	57.006	52.752	47.999	Data
45	24.934	6.626	57.005	52.753	47.998	Data
46.5	24.908	6.648	56.983	52.754	47.992	Data
46.5	24.968	6.660	56.985	52.754	47.992	Data
48	25.293	6.604	57.045	52.748	48.009	Data
48	25.254	6.621	57.048	52.749	48.009	Data
49	25.293	6.604	57.045	52.748	48.009	Data
49	25.254	6.621	57.048	52.749	48.009	Data
50	25.293	6.604	57.045	52.748	48.009	Data
50	25.254	6.621	57.048	52.749	48.009	Data
51	25.293	6.604	57.045	52.748	48.009	Data
51	25.254	6.621	57.048	52.749	48.009	Data
52.5	24.908	6.648	56.983	52.754	47.992	Data
52.5	24.968	6.660	56.985	52.754	47.992	Data
54	24.740	6.597	57.000	52.746	48.015	Data
54	24.485	6.605	56.997	52.748	48.015	Data
55	24.740	6.597	57.000	52.746	48.015	Data
55	24.485	6.605	56.997	52.748	48.015	Data
56	24.740	6.597	57.000	52.746	48.015	Data
56	24.485	6.605	56.997	52.748	48.015	Data
57	24.740	6.597	57.000	52.746	48.015	Data
57	24.485	6.605	56.997	52.748	48.015	Data
58.5	24.968	6.660	56.985	52.754	47.992	Data
58.5	24.908	6.648	56.983	52.754	47.992	Data
60.5	25.261	6.630	57.001	52.753	48.031	Data
60.5	25.298	6.648	57.005	52.753	48.030	Data
61.75	25.261	6.630	57.001	52.753	48.031	Data
61.75	25.298	6.648	57.005	52.753	48.030	Data
63	25.261	6.630	57.001	52.753	48.031	Data
63	25.298	6.648	57.005	52.753	48.030	Data
64	25.298	6.648	57.005	52.753	48.030	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
64	25.261	6.630	57.001	52.753	48.031	Data

Table 493: Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.036	6.647	56.981	52.754	49.009	Data
8	24.706	6.658	56.986	52.753	49.008	Data
30	25.132	6.609	57.037	52.749	49.006	Data
30	25.105	6.635	57.048	52.747	49.006	Data
30	25.036	6.647	56.981	52.754	49.009	Data
30	25.400	6.640	57.006	52.754	49.004	Data
30	25.223	6.606	57.011	52.751	49.006	Data
30	24.706	6.658	56.986	52.753	49.008	Data
30	24.801	6.584	57.007	52.747	49.025	Data
30	24.543	6.592	57.006	52.747	49.025	Data
30	25.267	6.643	57.002	52.753	49.005	Data
30	25.109	6.594	57.002	52.751	49.006	Data
42	25.223	6.606	57.011	52.751	49.006	Data
42	25.109	6.594	57.002	52.751	49.006	Data
43	25.223	6.606	57.011	52.751	49.006	Data
43	25.109	6.594	57.002	52.751	49.006	Data
44	25.109	6.594	57.002	52.751	49.006	Data
44	25.223	6.606	57.011	52.751	49.006	Data
45	25.109	6.594	57.002	52.751	49.006	Data
45	25.223	6.606	57.011	52.751	49.006	Data
46.5	24.706	6.658	56.986	52.753	49.008	Data
46.5	25.036	6.647	56.981	52.754	49.009	Data
48	25.105	6.635	57.048	52.747	49.006	Data
48	25.132	6.609	57.037	52.749	49.006	Data
49	25.105	6.635	57.048	52.747	49.006	Data
49	25.132	6.609	57.037	52.749	49.006	Data
50	25.105	6.635	57.048	52.747	49.006	Data
50	25.132	6.609	57.037	52.749	49.006	Data
51	25.105	6.635	57.048	52.747	49.006	Data
51	25.132	6.609	57.037	52.749	49.006	Data
52.5	25.036	6.647	56.981	52.754	49.009	Data
52.5	24.706	6.658	56.986	52.753	49.008	Data
54	24.801	6.584	57.007	52.747	49.025	Data
54	24.543	6.592	57.006	52.747	49.025	Data
55	24.801	6.584	57.007	52.747	49.025	Data
55	24.543	6.592	57.006	52.747	49.025	Data
56	24.801	6.584	57.007	52.747	49.025	Data

Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	24.543	6.592	57.006	52.747	49.025	Data
57	24.801	6.584	57.007	52.747	49.025	Data
57	24.543	6.592	57.006	52.747	49.025	Data
58.5	25.036	6.647	56.981	52.754	49.009	Data
58.5	24.706	6.658	56.986	52.753	49.008	Data
60.5	25.267	6.643	57.002	52.753	49.005	Data
60.5	25.400	6.640	57.006	52.754	49.004	Data
61.75	25.267	6.643	57.002	52.753	49.005	Data
61.75	25.400	6.640	57.006	52.754	49.004	Data
63	25.267	6.643	57.002	52.753	49.005	Data
63	25.400	6.640	57.006	52.754	49.004	Data
64	25.267	6.643	57.002	52.753	49.005	Data
64	25.400	6.640	57.006	52.754	49.004	Data

Table 494: Vertical sweep VG at 52.5 (in), q=25 RO-tip VG AoA 4 VG at span y=52.5 (in)

D.46. Vertical VG vortex sweep at y=58.5 (in), q=25, α_{VG}=4, α_W=7, RO-tip

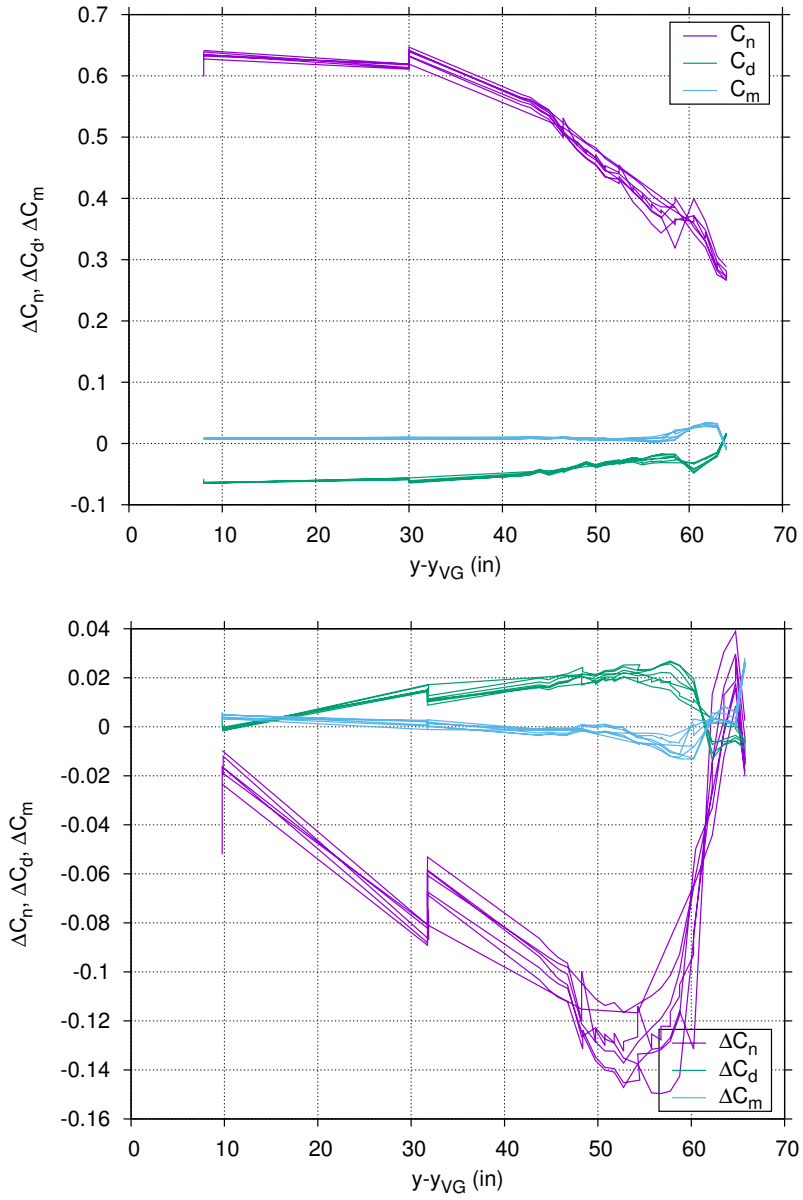

Figure 99. Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.318	6.612	57.048	58.75	42.992	Data
30	25.395	6.639	57.002	58.752	42.988	Data
30	24.329	6.602	57.003	58.747	43.012	Data
30	25.318	6.612	57.001	58.75	43.008	Data
30	25.217	6.609	57.009	58.747	43.008	Data
30	25.341	6.621	57.001	58.753	42.987	Data
30	25.338	6.623	57.058	58.75	42.993	Data

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	24.440	6.603	57.001	58.748	43.011	Data
42	25.217	6.609	57.009	58.747	43.008	Data
42	25.318	6.612	57.001	58.75	43.008	Data
43	25.217	6.609	57.009	58.747	43.008	Data
43	25.318	6.612	57.001	58.75	43.008	Data
44	25.217	6.609	57.009	58.747	43.008	Data
44	25.318	6.612	57.001	58.75	43.008	Data
45	25.217	6.609	57.009	58.747	43.008	Data
45	25.318	6.612	57.001	58.75	43.008	Data
48	25.338	6.623	57.058	58.75	42.993	Data
48	25.318	6.612	57.048	58.75	42.992	Data
49	25.338	6.623	57.058	58.75	42.993	Data
49	25.318	6.612	57.048	58.75	42.992	Data
50	25.338	6.623	57.058	58.75	42.993	Data
50	25.318	6.612	57.048	58.75	42.992	Data
51	25.338	6.623	57.058	58.75	42.993	Data
51	25.318	6.612	57.048	58.75	42.992	Data
54	24.440	6.603	57.001	58.748	43.011	Data
54	24.329	6.602	57.003	58.747	43.012	Data
55	24.440	6.603	57.001	58.748	43.011	Data
55	24.329	6.602	57.003	58.747	43.012	Data
56	24.440	6.603	57.001	58.748	43.011	Data
56	24.329	6.602	57.003	58.747	43.012	Data
57	24.440	6.603	57.001	58.748	43.011	Data
57	24.329	6.602	57.003	58.747	43.012	Data
60.5	25.395	6.639	57.002	58.752	42.988	Data
60.5	25.341	6.621	57.001	58.753	42.987	Data
61.75	25.395	6.639	57.002	58.752	42.988	Data
61.75	25.341	6.621	57.001	58.753	42.987	Data
63	25.395	6.639	57.002	58.752	42.988	Data
63	25.341	6.621	57.001	58.753	42.987	Data
64	25.341	6.621	57.001	58.753	42.987	Data
64	25.395	6.639	57.002	58.752	42.988	Data

Table 495: Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.604	6.630	56.983	58.745	43.995	Data
8	25.688	6.610	56.972	58.745	43.995	Data
8	25.327	6.662	56.988	58.743	44.019	Data
8	25.307	6.626	56.989	58.743	44.019	Data
30	25.292	6.614	57.043	58.749	43.998	Data

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.373	6.582	56.986	58.748	43.993	Data
30	25.422	6.603	57.045	58.75	43.998	Data
30	24.746	6.617	56.979	58.749	43.989	Data
30	24.765	6.614	56.985	58.748	43.989	Data
30	25.470	6.647	57.002	58.753	44.031	Data
30	25.524	6.643	57.005	58.753	44.031	Data
30	25.307	6.626	56.989	58.743	44.019	Data
30	24.497	6.599	56.999	58.748	44.002	Data
30	25.215	6.596	56.989	58.748	43.994	Data
30	25.451	6.601	57.007	58.765	43.997	Data
30	25.243	6.601	57.002	58.748	44.006	Data
30	25.759	6.647	56.983	58.751	44.004	Data
30	25.327	6.662	56.988	58.743	44.019	Data
30	25.513	6.659	56.986	58.752	44.004	Data
30	25.688	6.610	56.972	58.745	43.995	Data
30	25.041	6.595	57.008	58.765	43.998	Data
30	25.604	6.630	56.983	58.745	43.995	Data
30	24.505	6.589	57.001	58.747	44.002	Data
30	24.880	6.597	57.001	58.748	44.006	Data
42	25.451	6.601	57.007	58.765	43.997	Data
42	25.243	6.601	57.002	58.748	44.006	Data
42	25.041	6.595	57.008	58.765	43.998	Data
42	24.880	6.597	57.001	58.748	44.006	Data
43	25.451	6.601	57.007	58.765	43.997	Data
43	25.243	6.601	57.002	58.748	44.006	Data
43	25.041	6.595	57.008	58.765	43.998	Data
43	24.880	6.597	57.001	58.748	44.006	Data
44	25.451	6.601	57.007	58.765	43.997	Data
44	25.243	6.601	57.002	58.748	44.006	Data
44	24.880	6.597	57.001	58.748	44.006	Data
44	25.041	6.595	57.008	58.765	43.998	Data
45	25.451	6.601	57.007	58.765	43.997	Data
45	25.243	6.601	57.002	58.748	44.006	Data
45	24.880	6.597	57.001	58.748	44.006	Data
45	25.041	6.595	57.008	58.765	43.998	Data
46.5	25.307	6.626	56.989	58.743	44.019	Data
46.5	25.604	6.630	56.983	58.745	43.995	Data
46.5	25.327	6.662	56.988	58.743	44.019	Data
46.5	25.688	6.610	56.972	58.745	43.995	Data
48	25.292	6.614	57.043	58.749	43.998	Data
48	24.746	6.617	56.979	58.749	43.989	Data
48	25.422	6.603	57.045	58.75	43.998	Data
48	24.765	6.614	56.985	58.748	43.989	Data
49	25.292	6.614	57.043	58.749	43.998	Data

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
49	24.746	6.617	56.979	58.749	43.989	Data
49	25.422	6.603	57.045	58.75	43.998	Data
49	24.765	6.614	56.985	58.748	43.989	Data
50	25.292	6.614	57.043	58.749	43.998	Data
50	24.746	6.617	56.979	58.749	43.989	Data
50	25.422	6.603	57.045	58.75	43.998	Data
50	24.765	6.614	56.985	58.748	43.989	Data
51	25.292	6.614	57.043	58.749	43.998	Data
51	25.422	6.603	57.045	58.75	43.998	Data
51	24.746	6.617	56.979	58.749	43.989	Data
51	24.765	6.614	56.985	58.748	43.989	Data
52.5	25.604	6.630	56.983	58.745	43.995	Data
52.5	25.307	6.626	56.989	58.743	44.019	Data
52.5	25.688	6.610	56.972	58.745	43.995	Data
52.5	25.327	6.662	56.988	58.743	44.019	Data
54	25.373	6.582	56.986	58.748	43.993	Data
54	25.215	6.596	56.989	58.748	43.994	Data
54	24.497	6.599	56.999	58.748	44.002	Data
54	24.505	6.589	57.001	58.747	44.002	Data
55	25.373	6.582	56.986	58.748	43.993	Data
55	25.215	6.596	56.989	58.748	43.994	Data
55	24.497	6.599	56.999	58.748	44.002	Data
55	24.505	6.589	57.001	58.747	44.002	Data
56	25.373	6.582	56.986	58.748	43.993	Data
56	25.215	6.596	56.989	58.748	43.994	Data
56	24.497	6.599	56.999	58.748	44.002	Data
56	24.505	6.589	57.001	58.747	44.002	Data
57	25.373	6.582	56.986	58.748	43.993	Data
57	25.215	6.596	56.989	58.748	43.994	Data
57	24.497	6.599	56.999	58.748	44.002	Data
57	24.505	6.589	57.001	58.747	44.002	Data
58.5	25.688	6.610	56.972	58.745	43.995	Data
58.5	25.604	6.630	56.983	58.745	43.995	Data
58.5	25.307	6.626	56.989	58.743	44.019	Data
58.5	25.327	6.662	56.988	58.743	44.019	Data
60.5	25.470	6.647	57.002	58.753	44.031	Data
60.5	25.513	6.659	56.986	58.752	44.004	Data
60.5	25.759	6.647	56.983	58.751	44.004	Data
60.5	25.524	6.643	57.005	58.753	44.031	Data
61.75	25.470	6.647	57.002	58.753	44.031	Data
61.75	25.513	6.659	56.986	58.752	44.004	Data
61.75	25.759	6.647	56.983	58.751	44.004	Data
61.75	25.524	6.643	57.005	58.753	44.031	Data
63	25.470	6.647	57.002	58.753	44.031	Data

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	25.513	6.659	56.986	58.752	44.004	Data
63	25.759	6.647	56.983	58.751	44.004	Data
63	25.524	6.643	57.005	58.753	44.031	Data
64	25.470	6.647	57.002	58.753	44.031	Data
64	25.513	6.659	56.986	58.752	44.004	Data
64	25.524	6.643	57.005	58.753	44.031	Data
64	25.759	6.647	56.983	58.751	44.004	Data

Table 496: Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.171	6.655	56.984	58.743	45.025	Data
8	25.153	6.660	56.991	58.743	45.025	Data
30	25.171	6.655	56.984	58.743	45.025	Data
30	25.430	6.617	57.045	58.75	44.991	Data
30	24.552	6.588	56.999	58.746	45.001	Data
30	25.153	6.660	56.991	58.743	45.025	Data
30	25.457	6.647	57.002	58.753	44.979	Data
30	25.226	6.642	57.043	58.752	44.991	Data
30	25.357	6.647	57.003	58.752	44.979	Data
30	25.430	6.604	57.006	58.749	45.008	Data
30	24.437	6.606	57.005	58.747	45.001	Data
30	25.237	6.610	56.998	58.749	45.008	Data
42	25.237	6.610	56.998	58.749	45.008	Data
42	25.430	6.604	57.006	58.749	45.008	Data
43	25.237	6.610	56.998	58.749	45.008	Data
43	25.430	6.604	57.006	58.749	45.008	Data
44	25.237	6.610	56.998	58.749	45.008	Data
44	25.430	6.604	57.006	58.749	45.008	Data
45	25.237	6.610	56.998	58.749	45.008	Data
45	25.430	6.604	57.006	58.749	45.008	Data
46.5	25.153	6.660	56.991	58.743	45.025	Data
46.5	25.171	6.655	56.984	58.743	45.025	Data
48	25.430	6.617	57.045	58.75	44.991	Data
48	25.226	6.642	57.043	58.752	44.991	Data
49	25.430	6.617	57.045	58.75	44.991	Data
49	25.226	6.642	57.043	58.752	44.991	Data
50	25.430	6.617	57.045	58.75	44.991	Data
50	25.226	6.642	57.043	58.752	44.991	Data
51	25.430	6.617	57.045	58.75	44.991	Data
51	25.226	6.642	57.043	58.752	44.991	Data
52.5	25.153	6.660	56.991	58.743	45.025	Data

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
52.5	25.171	6.655	56.984	58.743	45.025	Data
54	24.437	6.606	57.005	58.747	45.001	Data
54	24.552	6.588	56.999	58.746	45.001	Data
55	24.437	6.606	57.005	58.747	45.001	Data
55	24.552	6.588	56.999	58.746	45.001	Data
56	24.437	6.606	57.005	58.747	45.001	Data
56	24.552	6.588	56.999	58.746	45.001	Data
57	24.437	6.606	57.005	58.747	45.001	Data
57	24.552	6.588	56.999	58.746	45.001	Data
58.5	25.153	6.660	56.991	58.743	45.025	Data
58.5	25.171	6.655	56.984	58.743	45.025	Data
60.5	25.357	6.647	57.003	58.752	44.979	Data
60.5	25.457	6.647	57.002	58.753	44.979	Data
61.75	25.357	6.647	57.003	58.752	44.979	Data
61.75	25.457	6.647	57.002	58.753	44.979	Data
63	25.357	6.647	57.003	58.752	44.979	Data
63	25.457	6.647	57.002	58.753	44.979	Data
64	25.357	6.647	57.003	58.752	44.979	Data
64	25.457	6.647	57.002	58.753	44.979	Data

Table 497: Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.351	6.648	56.987	58.743	46.034	Data
8	25.225	6.643	56.993	58.741	46.033	Data
30	25.351	6.648	56.987	58.743	46.034	Data
30	25.393	6.627	57.045	58.75	45.994	Data
30	25.191	6.644	57.041	58.749	45.994	Data
30	25.225	6.643	56.993	58.741	46.033	Data
30	25.476	6.652	57.005	58.752	46.026	Data
30	24.575	6.608	56.997	58.746	46.012	Data
30	25.283	6.599	57.003	58.749	46.006	Data
30	24.756	6.590	56.999	58.748	46.013	Data
30	25.168	6.596	56.998	58.75	46.006	Data
30	25.361	6.634	57.002	58.754	46.026	Data
42	25.283	6.599	57.003	58.749	46.006	Data
42	25.168	6.596	56.998	58.75	46.006	Data
43	25.283	6.599	57.003	58.749	46.006	Data
43	25.168	6.596	56.998	58.75	46.006	Data
44	25.283	6.599	57.003	58.749	46.006	Data
44	25.168	6.596	56.998	58.75	46.006	Data
45	25.283	6.599	57.003	58.749	46.006	Data

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	25.168	6.596	56.998	58.75	46.006	Data
46.5	25.351	6.648	56.987	58.743	46.034	Data
46.5	25.225	6.643	56.993	58.741	46.033	Data
48	25.191	6.644	57.041	58.749	45.994	Data
48	25.393	6.627	57.045	58.75	45.994	Data
49	25.191	6.644	57.041	58.749	45.994	Data
49	25.393	6.627	57.045	58.75	45.994	Data
50	25.191	6.644	57.041	58.749	45.994	Data
50	25.393	6.627	57.045	58.75	45.994	Data
51	25.393	6.627	57.045	58.75	45.994	Data
51	25.191	6.644	57.041	58.749	45.994	Data
52.5	25.351	6.648	56.987	58.743	46.034	Data
52.5	25.225	6.643	56.993	58.741	46.033	Data
54	24.756	6.590	56.999	58.748	46.013	Data
54	24.575	6.608	56.997	58.746	46.012	Data
55	24.756	6.590	56.999	58.748	46.013	Data
55	24.575	6.608	56.997	58.746	46.012	Data
56	24.756	6.590	56.999	58.748	46.013	Data
56	24.575	6.608	56.997	58.746	46.012	Data
57	24.756	6.590	56.999	58.748	46.013	Data
57	24.575	6.608	56.997	58.746	46.012	Data
58.5	25.351	6.648	56.987	58.743	46.034	Data
58.5	25.225	6.643	56.993	58.741	46.033	Data
60.5	25.476	6.652	57.005	58.752	46.026	Data
60.5	25.361	6.634	57.002	58.754	46.026	Data
61.75	25.476	6.652	57.005	58.752	46.026	Data
61.75	25.361	6.634	57.002	58.754	46.026	Data
63	25.476	6.652	57.005	58.752	46.026	Data
63	25.361	6.634	57.002	58.754	46.026	Data
64	25.476	6.652	57.005	58.752	46.026	Data
64	25.361	6.634	57.002	58.754	46.026	Data

Table 498: Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.251	6.666	56.987	58.744	46.500	Data
8	25.377	6.639	56.990	58.744	46.499	Data
30	25.377	6.639	56.990	58.744	46.499	Data
30	25.251	6.666	56.987	58.744	46.500	Data
46.5	25.251	6.666	56.987	58.744	46.500	Data
46.5	25.377	6.639	56.990	58.744	46.499	Data
52.5	25.251	6.666	56.987	58.744	46.500	Data

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
52.5	25.377	6.639	56.990	58.744	46.499	Data
58.5	25.251	6.666	56.987	58.744	46.500	Data
58.5	25.377	6.639	56.990	58.744	46.499	Data

Table 499: Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.194	6.638	56.977	58.742	46.995	Data
8	25.153	6.646	56.981	58.744	46.996	Data
30	25.399	6.637	57.042	58.751	47.012	Data
30	25.194	6.638	56.977	58.742	46.995	Data
30	25.153	6.646	56.981	58.744	46.996	Data
30	25.349	6.647	57.017	58.752	47.003	Data
30	24.708	6.594	57.006	58.747	46.996	Data
30	24.577	6.602	57.006	58.745	46.996	Data
30	25.205	6.627	57.038	58.749	47.012	Data
30	25.157	6.637	57.005	58.753	47.002	Data
30	25.275	6.583	57.000	58.749	47.003	Data
30	25.234	6.597	57.000	58.749	47.004	Data
42	25.275	6.583	57.000	58.749	47.003	Data
42	25.234	6.597	57.000	58.749	47.004	Data
43	25.275	6.583	57.000	58.749	47.003	Data
43	25.234	6.597	57.000	58.749	47.004	Data
44	25.275	6.583	57.000	58.749	47.003	Data
44	25.234	6.597	57.000	58.749	47.004	Data
45	25.275	6.583	57.000	58.749	47.003	Data
45	25.234	6.597	57.000	58.749	47.004	Data
46.5	25.153	6.646	56.981	58.744	46.996	Data
46.5	25.194	6.638	56.977	58.742	46.995	Data
48	25.399	6.637	57.042	58.751	47.012	Data
48	25.205	6.627	57.038	58.749	47.012	Data
49	25.399	6.637	57.042	58.751	47.012	Data
49	25.205	6.627	57.038	58.749	47.012	Data
50	25.399	6.637	57.042	58.751	47.012	Data
50	25.205	6.627	57.038	58.749	47.012	Data
51	25.399	6.637	57.042	58.751	47.012	Data
51	25.205	6.627	57.038	58.749	47.012	Data
52.5	25.153	6.646	56.981	58.744	46.996	Data
52.5	25.194	6.638	56.977	58.742	46.995	Data
54	24.577	6.602	57.006	58.745	46.996	Data
54	24.708	6.594	57.006	58.747	46.996	Data
55	24.577	6.602	57.006	58.745	46.996	Data

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	24.708	6.594	57.006	58.747	46.996	Data
56	24.577	6.602	57.006	58.745	46.996	Data
56	24.708	6.594	57.006	58.747	46.996	Data
57	24.577	6.602	57.006	58.745	46.996	Data
57	24.708	6.594	57.006	58.747	46.996	Data
58.5	25.194	6.638	56.977	58.742	46.995	Data
58.5	25.153	6.646	56.981	58.744	46.996	Data
60.5	25.349	6.647	57.017	58.752	47.003	Data
60.5	25.157	6.637	57.005	58.753	47.002	Data
61.75	25.349	6.647	57.017	58.752	47.003	Data
61.75	25.157	6.637	57.005	58.753	47.002	Data
63	25.349	6.647	57.017	58.752	47.003	Data
63	25.157	6.637	57.005	58.753	47.002	Data
64	25.157	6.637	57.005	58.753	47.002	Data
64	25.349	6.647	57.017	58.752	47.003	Data

Table 500: Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.186	6.644	56.983	58.743	47.516	Data
8	24.933	6.642	56.984	58.743	47.515	Data
30	25.186	6.644	56.983	58.743	47.516	Data
30	24.933	6.642	56.984	58.743	47.515	Data
46.5	24.933	6.642	56.984	58.743	47.515	Data
46.5	25.186	6.644	56.983	58.743	47.516	Data
52.5	24.933	6.642	56.984	58.743	47.515	Data
52.5	25.186	6.644	56.983	58.743	47.516	Data
58.5	25.186	6.644	56.983	58.743	47.516	Data
58.5	24.933	6.642	56.984	58.743	47.515	Data

Table 501: Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.188	6.655	56.985	58.744	47.999	Data
8	25.298	6.651	56.985	58.744	47.999	Data
30	25.188	6.655	56.985	58.744	47.999	Data
30	25.436	6.610	57.045	58.75	47.993	Data
30	25.298	6.651	56.985	58.744	47.999	Data
30	25.428	6.629	57.001	58.751	48.002	Data
30	25.465	6.640	57.009	58.752	48.003	Data

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.167	6.597	57.003	58.748	47.998	Data
30	24.412	6.593	57.002	58.745	48.007	Data
30	24.399	6.589	57.002	58.745	48.007	Data
30	25.249	6.625	57.045	58.75	47.993	Data
30	25.185	6.604	56.998	58.748	47.998	Data
42	25.167	6.597	57.003	58.748	47.998	Data
42	25.185	6.604	56.998	58.748	47.998	Data
43	25.185	6.604	56.998	58.748	47.998	Data
43	25.167	6.597	57.003	58.748	47.998	Data
44	25.185	6.604	56.998	58.748	47.998	Data
44	25.167	6.597	57.003	58.748	47.998	Data
45	25.185	6.604	56.998	58.748	47.998	Data
45	25.167	6.597	57.003	58.748	47.998	Data
46.5	25.298	6.651	56.985	58.744	47.999	Data
46.5	25.188	6.655	56.985	58.744	47.999	Data
48	25.249	6.625	57.045	58.75	47.993	Data
48	25.436	6.610	57.045	58.75	47.993	Data
49	25.249	6.625	57.045	58.75	47.993	Data
49	25.436	6.610	57.045	58.75	47.993	Data
50	25.249	6.625	57.045	58.75	47.993	Data
50	25.436	6.610	57.045	58.75	47.993	Data
51	25.249	6.625	57.045	58.75	47.993	Data
51	25.436	6.610	57.045	58.75	47.993	Data
52.5	25.188	6.655	56.985	58.744	47.999	Data
52.5	25.298	6.651	56.985	58.744	47.999	Data
54	24.399	6.589	57.002	58.745	48.007	Data
54	24.412	6.593	57.002	58.745	48.007	Data
55	24.399	6.589	57.002	58.745	48.007	Data
55	24.412	6.593	57.002	58.745	48.007	Data
56	24.399	6.589	57.002	58.745	48.007	Data
56	24.412	6.593	57.002	58.745	48.007	Data
57	24.399	6.589	57.002	58.745	48.007	Data
57	24.412	6.593	57.002	58.745	48.007	Data
58.5	25.188	6.655	56.985	58.744	47.999	Data
58.5	25.298	6.651	56.985	58.744	47.999	Data
60.5	25.465	6.640	57.009	58.752	48.003	Data
60.5	25.428	6.629	57.001	58.751	48.002	Data
61.75	25.465	6.640	57.009	58.752	48.003	Data
61.75	25.428	6.629	57.001	58.751	48.002	Data
63	25.465	6.640	57.009	58.752	48.003	Data
63	25.428	6.629	57.001	58.751	48.002	Data
64	25.465	6.640	57.009	58.752	48.003	Data
64	25.428	6.629	57.001	58.751	48.002	Data

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 502: Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.263	6.657	56.988	58.742	49.007	Data
8	25.292	6.657	56.985	58.742	49.006	Data
30	25.292	6.657	56.985	58.742	49.006	Data
30	25.263	6.657	56.988	58.742	49.007	Data
46.5	25.263	6.657	56.988	58.742	49.007	Data
46.5	25.292	6.657	56.985	58.742	49.006	Data
52.5	25.292	6.657	56.985	58.742	49.006	Data
52.5	25.263	6.657	56.988	58.742	49.007	Data
58.5	25.292	6.657	56.985	58.742	49.006	Data
58.5	25.263	6.657	56.988	58.742	49.007	Data

Table 503: Vertical sweep VG at 58.5 (in), q=25 RO-tip VG AoA 4 VG at span y=58.5 (in)

D.47. Vertical VG vortex sweep at y=64.5 (in), q=25, α_{VG}=4, α_W=7, RO-tip

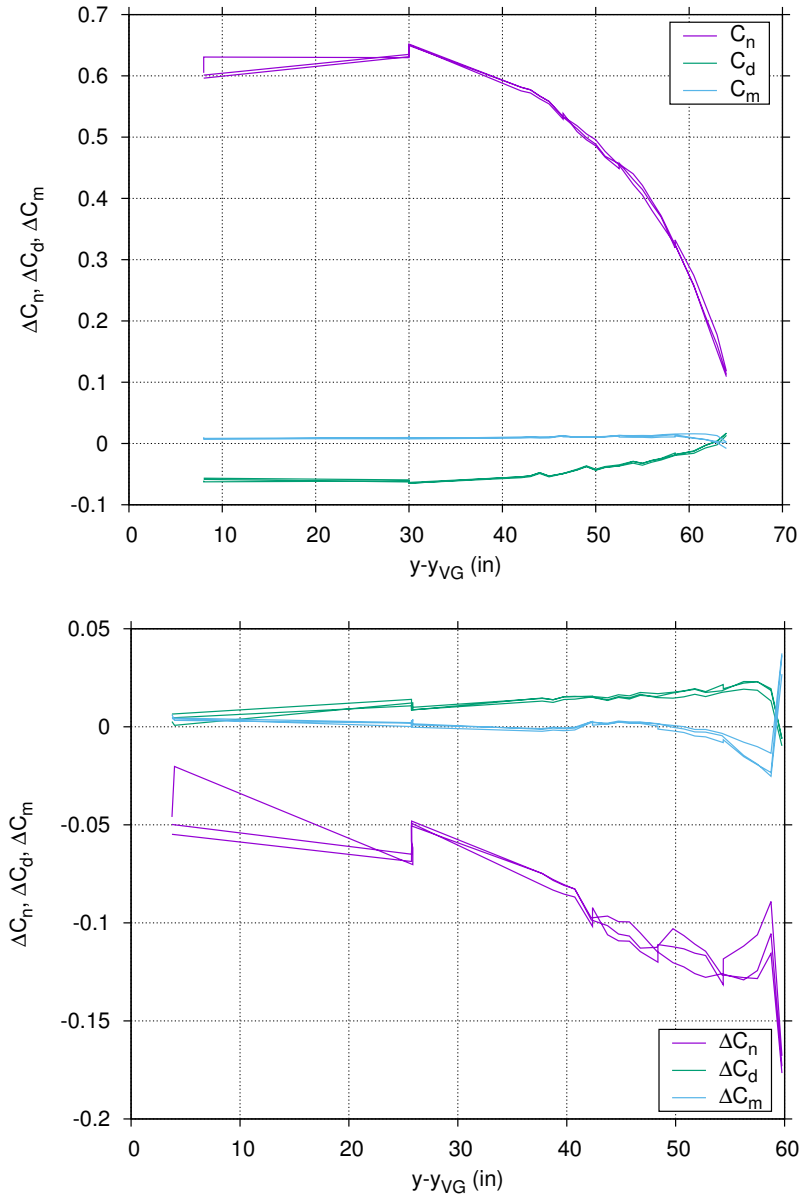

Figure 100. Vertical sweep VG at 64.5 (in), q=25 RO-tip VG AoA 4 (Data)

Vertical sweep VG at 64.5 (in), q=25 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.107	6.653	57.006	64.749	44.998	Data
8	25.574	6.629	57.006	64.749	44.999	Data
30	25.492	6.607	57.037	64.752	45.003	Data
30	25.204	6.621	57.039	64.75	45.003	Data
30	24.856	6.600	57.001	64.749	45.005	Data
30	25.371	6.624	57.000	64.75	45.007	Data
30	25.574	6.629	57.006	64.749	44.999	Data

Vertical sweep VG at 64.5 (in), q=25 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.107	6.653	57.006	64.749	44.998	Data
30	24.663	6.587	56.999	64.749	45.005	Data
30	25.232	6.629	57.002	64.748	45.007	Data
30	25.366	6.608	57.001	64.756	44.997	Data
30	25.547	6.605	56.998	64.756	44.997	Data
42	25.547	6.605	56.998	64.756	44.997	Data
42	25.366	6.608	57.001	64.756	44.997	Data
43	25.547	6.605	56.998	64.756	44.997	Data
43	25.366	6.608	57.001	64.756	44.997	Data
44	25.547	6.605	56.998	64.756	44.997	Data
44	25.366	6.608	57.001	64.756	44.997	Data
45	25.547	6.605	56.998	64.756	44.997	Data
45	25.366	6.608	57.001	64.756	44.997	Data
46.5	25.574	6.629	57.006	64.749	44.999	Data
46.5	25.107	6.653	57.006	64.749	44.998	Data
48	25.492	6.607	57.037	64.752	45.003	Data
48	25.204	6.621	57.039	64.75	45.003	Data
49	25.492	6.607	57.037	64.752	45.003	Data
49	25.204	6.621	57.039	64.75	45.003	Data
50	25.492	6.607	57.037	64.752	45.003	Data
50	25.204	6.621	57.039	64.75	45.003	Data
51	25.492	6.607	57.037	64.752	45.003	Data
51	25.204	6.621	57.039	64.75	45.003	Data
52.5	25.574	6.629	57.006	64.749	44.999	Data
52.5	25.107	6.653	57.006	64.749	44.998	Data
54	24.856	6.600	57.001	64.749	45.005	Data
54	24.663	6.587	56.999	64.749	45.005	Data
55	24.856	6.600	57.001	64.749	45.005	Data
55	24.663	6.587	56.999	64.749	45.005	Data
56	24.856	6.600	57.001	64.749	45.005	Data
56	24.663	6.587	56.999	64.749	45.005	Data
57	24.856	6.600	57.001	64.749	45.005	Data
57	24.663	6.587	56.999	64.749	45.005	Data
58.5	25.574	6.629	57.006	64.749	44.999	Data
58.5	25.107	6.653	57.006	64.749	44.998	Data
60.5	25.232	6.629	57.002	64.748	45.007	Data
60.5	25.371	6.624	57.000	64.75	45.007	Data
61.75	25.232	6.629	57.002	64.748	45.007	Data
61.75	25.371	6.624	57.000	64.75	45.007	Data
63	25.232	6.629	57.002	64.748	45.007	Data
63	25.371	6.624	57.000	64.75	45.007	Data
64	25.232	6.629	57.002	64.748	45.007	Data
64	25.371	6.624	57.000	64.75	45.007	Data

Vertical sweep VG at 64.5 (in), q=25 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 504: Vertical sweep VG at 64.5 (in), q=25 RO-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=25 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.149	6.635	57.011	64.752	45.992	Data
8	25.168	6.648	57.009	64.749	45.991	Data
30	25.164	6.607	57.046	64.752	46.006	Data
30	25.064	6.633	57.040	64.751	46.004	Data
30	24.719	6.582	56.995	64.748	46.006	Data
30	24.937	6.578	57.001	64.748	46.006	Data
30	25.499	6.637	57.003	64.75	45.999	Data
30	25.149	6.635	57.011	64.752	45.992	Data
30	25.163	6.595	57.009	64.753	45.997	Data
30	25.431	6.612	56.998	64.755	45.997	Data
30	25.168	6.648	57.009	64.749	45.991	Data
30	25.314	6.631	57.006	64.748	45.999	Data
42	25.431	6.612	56.998	64.755	45.997	Data
42	25.163	6.595	57.009	64.753	45.997	Data
43	25.431	6.612	56.998	64.755	45.997	Data
43	25.163	6.595	57.009	64.753	45.997	Data
44	25.431	6.612	56.998	64.755	45.997	Data
44	25.163	6.595	57.009	64.753	45.997	Data
45	25.431	6.612	56.998	64.755	45.997	Data
45	25.163	6.595	57.009	64.753	45.997	Data
46.5	25.168	6.648	57.009	64.749	45.991	Data
46.5	25.149	6.635	57.011	64.752	45.992	Data
48	25.164	6.607	57.046	64.752	46.006	Data
48	25.064	6.633	57.040	64.751	46.004	Data
49	25.164	6.607	57.046	64.752	46.006	Data
49	25.064	6.633	57.040	64.751	46.004	Data
50	25.064	6.633	57.040	64.751	46.004	Data
50	25.164	6.607	57.046	64.752	46.006	Data
51	25.064	6.633	57.040	64.751	46.004	Data
51	25.164	6.607	57.046	64.752	46.006	Data
52.5	25.168	6.648	57.009	64.749	45.991	Data
52.5	25.149	6.635	57.011	64.752	45.992	Data
54	24.719	6.582	56.995	64.748	46.006	Data
54	24.937	6.578	57.001	64.748	46.006	Data
55	24.719	6.582	56.995	64.748	46.006	Data
55	24.937	6.578	57.001	64.748	46.006	Data
56	24.719	6.582	56.995	64.748	46.006	Data
56	24.937	6.578	57.001	64.748	46.006	Data

Vertical sweep VG at 64.5 (in), q=25 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	24.719	6.582	56.995	64.748	46.006	Data
57	24.937	6.578	57.001	64.748	46.006	Data
58.5	25.168	6.648	57.009	64.749	45.991	Data
58.5	25.149	6.635	57.011	64.752	45.992	Data
60.5	25.314	6.631	57.006	64.748	45.999	Data
60.5	25.499	6.637	57.003	64.75	45.999	Data
61.75	25.314	6.631	57.006	64.748	45.999	Data
61.75	25.499	6.637	57.003	64.75	45.999	Data
63	25.314	6.631	57.006	64.748	45.999	Data
63	25.499	6.637	57.003	64.75	45.999	Data
64	25.499	6.637	57.003	64.75	45.999	Data
64	25.314	6.631	57.006	64.748	45.999	Data

Table 505: Vertical sweep VG at 64.5 (in), q=25 RO-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=25 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.431	6.652	57.011	64.749	47.016	Data
8	25.363	6.631	57.006	64.751	47.016	Data
30	25.381	6.628	57.038	64.753	46.993	Data
30	25.431	6.652	57.011	64.749	47.016	Data
30	25.267	6.639	57.004	64.748	46.996	Data
30	24.862	6.606	57.003	64.749	47.006	Data
30	25.044	6.626	57.044	64.751	46.993	Data
30	25.363	6.631	57.006	64.751	47.016	Data
30	24.736	6.603	56.991	64.748	47.005	Data
30	25.304	6.614	57.005	64.757	47.009	Data
30	25.368	6.658	57.008	64.751	46.997	Data
30	25.238	6.602	57.005	64.754	47.008	Data
42	25.238	6.602	57.005	64.754	47.008	Data
42	25.304	6.614	57.005	64.757	47.009	Data
43	25.238	6.602	57.005	64.754	47.008	Data
43	25.304	6.614	57.005	64.757	47.009	Data
44	25.238	6.602	57.005	64.754	47.008	Data
44	25.304	6.614	57.005	64.757	47.009	Data
45	25.238	6.602	57.005	64.754	47.008	Data
45	25.304	6.614	57.005	64.757	47.009	Data
46.5	25.431	6.652	57.011	64.749	47.016	Data
46.5	25.363	6.631	57.006	64.751	47.016	Data
48	25.381	6.628	57.038	64.753	46.993	Data
48	25.044	6.626	57.044	64.751	46.993	Data
49	25.381	6.628	57.038	64.753	46.993	Data
49	25.044	6.626	57.044	64.751	46.993	Data

Vertical sweep VG at 64.5 (in), q=25 RO-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	25.381	6.628	57.038	64.753	46.993	Data
50	25.044	6.626	57.044	64.751	46.993	Data
51	25.381	6.628	57.038	64.753	46.993	Data
51	25.044	6.626	57.044	64.751	46.993	Data
52.5	25.431	6.652	57.011	64.749	47.016	Data
52.5	25.363	6.631	57.006	64.751	47.016	Data
54	24.736	6.603	56.991	64.748	47.005	Data
54	24.862	6.606	57.003	64.749	47.006	Data
55	24.736	6.603	56.991	64.748	47.005	Data
55	24.862	6.606	57.003	64.749	47.006	Data
56	24.736	6.603	56.991	64.748	47.005	Data
56	24.862	6.606	57.003	64.749	47.006	Data
57	24.736	6.603	56.991	64.748	47.005	Data
57	24.862	6.606	57.003	64.749	47.006	Data
58.5	25.363	6.631	57.006	64.751	47.016	Data
58.5	25.431	6.652	57.011	64.749	47.016	Data
60.5	25.267	6.639	57.004	64.748	46.996	Data
60.5	25.368	6.658	57.008	64.751	46.997	Data
61.75	25.267	6.639	57.004	64.748	46.996	Data
61.75	25.368	6.658	57.008	64.751	46.997	Data
63	25.267	6.639	57.004	64.748	46.996	Data
63	25.368	6.658	57.008	64.751	46.997	Data
64	25.267	6.639	57.004	64.748	46.996	Data
64	25.368	6.658	57.008	64.751	46.997	Data

Table 506: Vertical sweep VG at 64.5 (in), q=25 RO-tip VG AoA 4 VG at span y=64.5 (in)

D.48. Vertical VG vortex sweep at y=46.5 (in), q=25, α_{VG}=4, α_W=7, SQ-tip

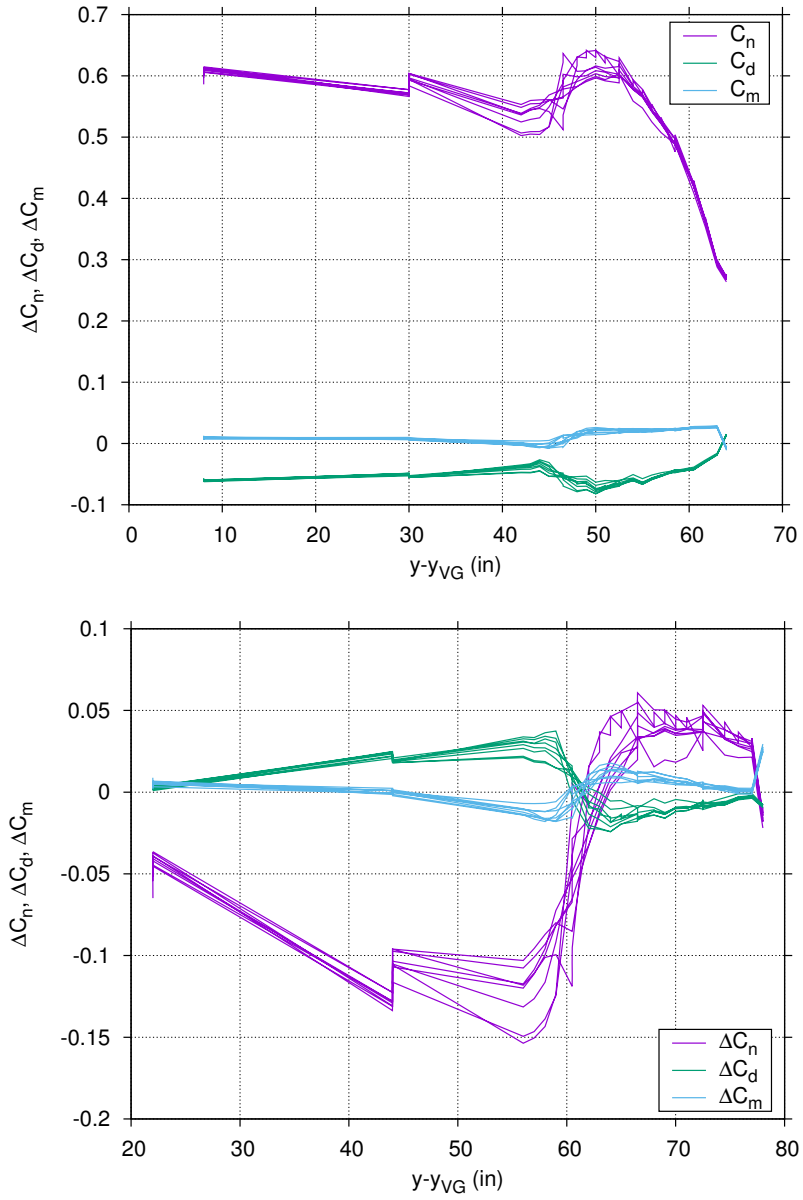

Figure 101. Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.634	6.632	57.006	46.508	42.015	Data
8	24.532	6.648	57.007	46.509	42.016	Data
30	24.532	6.648	57.007	46.509	42.016	Data
30	24.854	6.613	57.023	46.492	41.999	Data
30	24.634	6.632	57.006	46.508	42.015	Data
30	24.672	6.619	57.019	46.491	41.995	Data
30	25.467	6.601	57.016	46.497	42.013	Data

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.223	6.599	57.026	46.494	41.997	Data
30	25.146	6.604	56.994	46.491	42.005	Data
30	25.209	6.604	57.020	46.493	41.997	Data
30	25.315	6.617	57.015	46.497	42.014	Data
30	24.821	6.604	56.988	46.492	42.006	Data
42	25.209	6.604	57.020	46.493	41.997	Data
42	25.223	6.599	57.026	46.494	41.997	Data
43	25.209	6.604	57.020	46.493	41.997	Data
43	25.223	6.599	57.026	46.494	41.997	Data
44	25.209	6.604	57.020	46.493	41.997	Data
44	25.223	6.599	57.026	46.494	41.997	Data
45	25.209	6.604	57.020	46.493	41.997	Data
45	25.223	6.599	57.026	46.494	41.997	Data
46.5	24.634	6.632	57.006	46.508	42.015	Data
46.5	24.532	6.648	57.007	46.509	42.016	Data
48	24.821	6.604	56.988	46.492	42.006	Data
48	25.146	6.604	56.994	46.491	42.005	Data
49	24.821	6.604	56.988	46.492	42.006	Data
49	25.146	6.604	56.994	46.491	42.005	Data
50	24.821	6.604	56.988	46.492	42.006	Data
50	25.146	6.604	56.994	46.491	42.005	Data
51	24.821	6.604	56.988	46.492	42.006	Data
51	25.146	6.604	56.994	46.491	42.005	Data
52.5	24.532	6.648	57.007	46.509	42.016	Data
52.5	24.634	6.632	57.006	46.508	42.015	Data
54	24.854	6.613	57.023	46.492	41.999	Data
54	24.672	6.619	57.019	46.491	41.995	Data
55	24.854	6.613	57.023	46.492	41.999	Data
55	24.672	6.619	57.019	46.491	41.995	Data
56	24.854	6.613	57.023	46.492	41.999	Data
56	24.672	6.619	57.019	46.491	41.995	Data
57	24.854	6.613	57.023	46.492	41.999	Data
57	24.672	6.619	57.019	46.491	41.995	Data
58.5	24.532	6.648	57.007	46.509	42.016	Data
58.5	24.634	6.632	57.006	46.508	42.015	Data
60.5	25.467	6.601	57.016	46.497	42.013	Data
60.5	25.315	6.617	57.015	46.497	42.014	Data
61.75	25.467	6.601	57.016	46.497	42.013	Data
61.75	25.315	6.617	57.015	46.497	42.014	Data
63	25.467	6.601	57.016	46.497	42.013	Data
63	25.315	6.617	57.015	46.497	42.014	Data
64	25.467	6.601	57.016	46.497	42.013	Data
64	25.315	6.617	57.015	46.497	42.014	Data

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 507: Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.519	6.634	57.009	46.508	43.011	Data
8	24.581	6.645	57.011	46.508	43.011	Data
30	25.417	6.625	57.017	46.497	42.991	Data
30	24.865	6.621	57.022	46.493	43.016	Data
30	24.581	6.645	57.011	46.508	43.011	Data
30	24.946	6.605	57.021	46.497	42.991	Data
30	24.519	6.634	57.009	46.508	43.011	Data
30	24.663	6.608	57.025	46.491	43.016	Data
30	24.862	6.590	57.027	46.49	42.992	Data
30	24.941	6.598	57.026	46.49	42.993	Data
30	24.801	6.610	57.015	46.495	43.003	Data
30	25.105	6.606	57.024	46.493	43.004	Data
42	24.801	6.610	57.015	46.495	43.003	Data
42	25.105	6.606	57.024	46.493	43.004	Data
43	24.801	6.610	57.015	46.495	43.003	Data
43	25.105	6.606	57.024	46.493	43.004	Data
44	24.801	6.610	57.015	46.495	43.003	Data
44	25.105	6.606	57.024	46.493	43.004	Data
45	24.801	6.610	57.015	46.495	43.003	Data
45	25.105	6.606	57.024	46.493	43.004	Data
46.5	24.519	6.634	57.009	46.508	43.011	Data
46.5	24.581	6.645	57.011	46.508	43.011	Data
48	24.941	6.598	57.026	46.49	42.993	Data
48	24.862	6.590	57.027	46.49	42.992	Data
49	24.941	6.598	57.026	46.49	42.993	Data
49	24.862	6.590	57.027	46.49	42.992	Data
50	24.941	6.598	57.026	46.49	42.993	Data
50	24.862	6.590	57.027	46.49	42.992	Data
51	24.941	6.598	57.026	46.49	42.993	Data
51	24.862	6.590	57.027	46.49	42.992	Data
52.5	24.519	6.634	57.009	46.508	43.011	Data
52.5	24.581	6.645	57.011	46.508	43.011	Data
54	24.865	6.621	57.022	46.493	43.016	Data
54	24.663	6.608	57.025	46.491	43.016	Data
55	24.865	6.621	57.022	46.493	43.016	Data
55	24.663	6.608	57.025	46.491	43.016	Data
56	24.865	6.621	57.022	46.493	43.016	Data
56	24.663	6.608	57.025	46.491	43.016	Data

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	24.865	6.621	57.022	46.493	43.016	Data
57	24.663	6.608	57.025	46.491	43.016	Data
58.5	24.519	6.634	57.009	46.508	43.011	Data
58.5	24.581	6.645	57.011	46.508	43.011	Data
60.5	25.417	6.625	57.017	46.497	42.991	Data
60.5	24.946	6.605	57.021	46.497	42.991	Data
61.75	25.417	6.625	57.017	46.497	42.991	Data
61.75	24.946	6.605	57.021	46.497	42.991	Data
63	25.417	6.625	57.017	46.497	42.991	Data
63	24.946	6.605	57.021	46.497	42.991	Data
64	25.417	6.625	57.017	46.497	42.991	Data
64	24.946	6.605	57.021	46.497	42.991	Data

Table 508: Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.335	6.605	56.991	46.497	43.998	Data
8	24.528	6.642	57.003	46.509	44.006	Data
8	25.383	6.650	57.008	46.496	44.003	Data
8	25.495	6.669	57.004	46.494	44.004	Data
8	25.174	6.600	56.990	46.497	43.998	Data
8	24.655	6.634	57.003	46.508	44.006	Data
30	24.998	6.579	57.021	46.491	44.001	Data
30	25.383	6.650	57.008	46.496	44.003	Data
30	25.174	6.600	56.990	46.497	43.998	Data
30	24.684	6.593	57.017	46.489	44.002	Data
30	25.495	6.669	57.004	46.494	44.004	Data
30	24.903	6.625	57.022	46.492	44.003	Data
30	24.655	6.634	57.003	46.508	44.006	Data
30	25.335	6.605	56.991	46.497	43.998	Data
30	24.983	6.587	57.015	46.49	44.063	Data
30	25.282	6.610	57.024	46.496	44.006	Data
30	25.179	6.622	57.020	46.496	44.006	Data
30	25.576	6.603	57.057	46.5	44.005	Data
30	25.190	6.586	57.051	46.49	43.997	Data
30	25.154	6.613	57.062	46.501	44.005	Data
30	24.888	6.621	57.044	46.5	43.994	Data
30	24.528	6.642	57.003	46.509	44.006	Data
30	24.733	6.600	57.021	46.493	44.003	Data
30	25.013	6.611	57.023	46.492	43.996	Data
30	24.819	6.565	57.020	46.491	44.062	Data
30	25.114	6.578	57.051	46.491	43.998	Data

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.021	6.600	57.022	46.494	43.996	Data
30	24.967	6.622	57.042	46.498	43.994	Data
42	25.154	6.613	57.062	46.501	44.005	Data
42	25.576	6.603	57.057	46.5	44.005	Data
42	25.013	6.611	57.023	46.492	43.996	Data
42	25.021	6.600	57.022	46.494	43.996	Data
43	25.154	6.613	57.062	46.501	44.005	Data
43	25.576	6.603	57.057	46.5	44.005	Data
43	25.013	6.611	57.023	46.492	43.996	Data
43	25.021	6.600	57.022	46.494	43.996	Data
44	25.154	6.613	57.062	46.501	44.005	Data
44	25.576	6.603	57.057	46.5	44.005	Data
44	25.013	6.611	57.023	46.492	43.996	Data
44	25.021	6.600	57.022	46.494	43.996	Data
45	25.154	6.613	57.062	46.501	44.005	Data
45	25.576	6.603	57.057	46.5	44.005	Data
45	25.013	6.611	57.023	46.492	43.996	Data
45	25.021	6.600	57.022	46.494	43.996	Data
46.5	24.528	6.642	57.003	46.509	44.006	Data
46.5	25.495	6.669	57.004	46.494	44.004	Data
46.5	25.335	6.605	56.991	46.497	43.998	Data
46.5	24.655	6.634	57.003	46.508	44.006	Data
46.5	25.174	6.600	56.990	46.497	43.998	Data
46.5	25.383	6.650	57.008	46.496	44.003	Data
48	24.998	6.579	57.021	46.491	44.001	Data
48	25.114	6.578	57.051	46.491	43.998	Data
48	24.684	6.593	57.017	46.489	44.002	Data
48	25.190	6.586	57.051	46.49	43.997	Data
49	24.998	6.579	57.021	46.491	44.001	Data
49	25.114	6.578	57.051	46.491	43.998	Data
49	24.684	6.593	57.017	46.489	44.002	Data
49	25.190	6.586	57.051	46.49	43.997	Data
50	24.998	6.579	57.021	46.491	44.001	Data
50	25.114	6.578	57.051	46.491	43.998	Data
50	24.684	6.593	57.017	46.489	44.002	Data
50	25.190	6.586	57.051	46.49	43.997	Data
51	24.998	6.579	57.021	46.491	44.001	Data
51	25.114	6.578	57.051	46.491	43.998	Data
51	24.684	6.593	57.017	46.489	44.002	Data
51	25.190	6.586	57.051	46.49	43.997	Data
52.5	24.528	6.642	57.003	46.509	44.006	Data
52.5	25.335	6.605	56.991	46.497	43.998	Data
52.5	25.495	6.669	57.004	46.494	44.004	Data
52.5	25.174	6.600	56.990	46.497	43.998	Data

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
52.5	24.655	6.634	57.003	46.508	44.006	Data
52.5	25.383	6.650	57.008	46.496	44.003	Data
54	24.983	6.587	57.015	46.49	44.063	Data
54	24.903	6.625	57.022	46.492	44.003	Data
54	24.819	6.565	57.020	46.491	44.062	Data
54	24.733	6.600	57.021	46.493	44.003	Data
55	24.983	6.587	57.015	46.49	44.063	Data
55	24.903	6.625	57.022	46.492	44.003	Data
55	24.819	6.565	57.020	46.491	44.062	Data
55	24.733	6.600	57.021	46.493	44.003	Data
56	24.983	6.587	57.015	46.49	44.063	Data
56	24.903	6.625	57.022	46.492	44.003	Data
56	24.733	6.600	57.021	46.493	44.003	Data
56	24.819	6.565	57.020	46.491	44.062	Data
57	24.983	6.587	57.015	46.49	44.063	Data
57	24.903	6.625	57.022	46.492	44.003	Data
57	24.733	6.600	57.021	46.493	44.003	Data
57	24.819	6.565	57.020	46.491	44.062	Data
58.5	25.335	6.605	56.991	46.497	43.998	Data
58.5	24.528	6.642	57.003	46.509	44.006	Data
58.5	25.174	6.600	56.990	46.497	43.998	Data
58.5	25.495	6.669	57.004	46.494	44.004	Data
58.5	24.655	6.634	57.003	46.508	44.006	Data
58.5	25.383	6.650	57.008	46.496	44.003	Data
60.5	24.888	6.621	57.044	46.5	43.994	Data
60.5	24.967	6.622	57.042	46.498	43.994	Data
60.5	25.282	6.610	57.024	46.496	44.006	Data
60.5	25.179	6.622	57.020	46.496	44.006	Data
61.75	24.888	6.621	57.044	46.5	43.994	Data
61.75	24.967	6.622	57.042	46.498	43.994	Data
61.75	25.282	6.610	57.024	46.496	44.006	Data
61.75	25.179	6.622	57.020	46.496	44.006	Data
63	24.888	6.621	57.044	46.5	43.994	Data
63	25.282	6.610	57.024	46.496	44.006	Data
63	24.967	6.622	57.042	46.498	43.994	Data
63	25.179	6.622	57.020	46.496	44.006	Data
64	24.888	6.621	57.044	46.5	43.994	Data
64	25.282	6.610	57.024	46.496	44.006	Data
64	24.967	6.622	57.042	46.498	43.994	Data
64	25.179	6.622	57.020	46.496	44.006	Data

Table 509: Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.663	6.623	57.004	46.509	44.997	Data
8	24.596	6.630	57.009	46.507	44.997	Data
8	25.276	6.605	56.995	46.497	45.014	Data
8	25.202	6.627	56.988	46.497	45.014	Data
30	24.663	6.623	57.004	46.509	44.997	Data
30	24.751	6.607	57.024	46.491	44.987	Data
30	24.596	6.630	57.009	46.507	44.997	Data
30	24.822	6.598	57.012	46.489	44.997	Data
30	25.276	6.605	56.995	46.497	45.014	Data
30	24.814	6.610	57.035	46.494	45.000	Data
30	25.160	6.611	57.023	46.495	45.015	Data
30	24.662	6.627	57.025	46.492	44.987	Data
30	24.751	6.602	57.037	46.494	45.000	Data
30	25.202	6.627	56.988	46.497	45.014	Data
30	25.254	6.623	57.021	46.497	45.015	Data
30	24.808	6.592	57.010	46.49	44.996	Data
42	24.814	6.610	57.035	46.494	45.000	Data
42	24.751	6.602	57.037	46.494	45.000	Data
43	24.814	6.610	57.035	46.494	45.000	Data
43	24.751	6.602	57.037	46.494	45.000	Data
44	24.814	6.610	57.035	46.494	45.000	Data
44	24.751	6.602	57.037	46.494	45.000	Data
45	24.814	6.610	57.035	46.494	45.000	Data
45	24.751	6.602	57.037	46.494	45.000	Data
46.5	24.596	6.630	57.009	46.507	44.997	Data
46.5	25.276	6.605	56.995	46.497	45.014	Data
46.5	25.202	6.627	56.988	46.497	45.014	Data
46.5	24.663	6.623	57.004	46.509	44.997	Data
48	24.822	6.598	57.012	46.489	44.997	Data
48	24.808	6.592	57.010	46.49	44.996	Data
49	24.822	6.598	57.012	46.489	44.997	Data
49	24.808	6.592	57.010	46.49	44.996	Data
50	24.822	6.598	57.012	46.489	44.997	Data
50	24.808	6.592	57.010	46.49	44.996	Data
51	24.822	6.598	57.012	46.489	44.997	Data
51	24.808	6.592	57.010	46.49	44.996	Data
52.5	24.596	6.630	57.009	46.507	44.997	Data
52.5	24.663	6.623	57.004	46.509	44.997	Data
52.5	25.202	6.627	56.988	46.497	45.014	Data
52.5	25.276	6.605	56.995	46.497	45.014	Data
54	24.751	6.607	57.024	46.491	44.987	Data
54	24.662	6.627	57.025	46.492	44.987	Data
55	24.751	6.607	57.024	46.491	44.987	Data
55	24.662	6.627	57.025	46.492	44.987	Data

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	24.751	6.607	57.024	46.491	44.987	Data
56	24.662	6.627	57.025	46.492	44.987	Data
57	24.751	6.607	57.024	46.491	44.987	Data
57	24.662	6.627	57.025	46.492	44.987	Data
58.5	24.596	6.630	57.009	46.507	44.997	Data
58.5	24.663	6.623	57.004	46.509	44.997	Data
58.5	25.202	6.627	56.988	46.497	45.014	Data
58.5	25.276	6.605	56.995	46.497	45.014	Data
60.5	25.254	6.623	57.021	46.497	45.015	Data
60.5	25.160	6.611	57.023	46.495	45.015	Data
61.75	25.254	6.623	57.021	46.497	45.015	Data
61.75	25.160	6.611	57.023	46.495	45.015	Data
63	25.160	6.611	57.023	46.495	45.015	Data
63	25.254	6.623	57.021	46.497	45.015	Data
64	25.160	6.611	57.023	46.495	45.015	Data
64	25.254	6.623	57.021	46.497	45.015	Data

Table 510: Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.097	6.612	56.989	46.498	45.991	Data
8	24.528	6.602	57.005	46.509	46.009	Data
8	25.529	6.618	56.990	46.496	45.993	Data
8	24.642	6.620	57.001	46.507	46.008	Data
30	24.932	6.615	57.022	46.492	45.999	Data
30	25.529	6.618	56.990	46.496	45.993	Data
30	24.528	6.602	57.005	46.509	46.009	Data
30	24.545	6.588	57.029	46.489	46.004	Data
30	25.078	6.604	57.039	46.494	45.999	Data
30	25.097	6.612	56.989	46.498	45.991	Data
30	24.642	6.620	57.001	46.507	46.008	Data
30	25.193	6.605	57.036	46.494	45.999	Data
30	24.745	6.619	57.025	46.492	45.999	Data
30	25.261	6.619	57.025	46.496	46.010	Data
30	25.060	6.617	57.019	46.496	46.010	Data
30	24.698	6.598	57.017	46.49	46.004	Data
42	25.193	6.605	57.036	46.494	45.999	Data
42	25.078	6.604	57.039	46.494	45.999	Data
43	25.193	6.605	57.036	46.494	45.999	Data
43	25.078	6.604	57.039	46.494	45.999	Data
44	25.193	6.605	57.036	46.494	45.999	Data
44	25.078	6.604	57.039	46.494	45.999	Data

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	25.193	6.605	57.036	46.494	45.999	Data
45	25.078	6.604	57.039	46.494	45.999	Data
46.5	24.642	6.620	57.001	46.507	46.008	Data
46.5	25.097	6.612	56.989	46.498	45.991	Data
46.5	25.529	6.618	56.990	46.496	45.993	Data
46.5	24.528	6.602	57.005	46.509	46.009	Data
48	24.545	6.588	57.029	46.489	46.004	Data
48	24.698	6.598	57.017	46.49	46.004	Data
49	24.545	6.588	57.029	46.489	46.004	Data
49	24.698	6.598	57.017	46.49	46.004	Data
50	24.545	6.588	57.029	46.489	46.004	Data
50	24.698	6.598	57.017	46.49	46.004	Data
51	24.545	6.588	57.029	46.489	46.004	Data
51	24.698	6.598	57.017	46.49	46.004	Data
52.5	24.642	6.620	57.001	46.507	46.008	Data
52.5	25.097	6.612	56.989	46.498	45.991	Data
52.5	25.529	6.618	56.990	46.496	45.993	Data
52.5	24.528	6.602	57.005	46.509	46.009	Data
54	24.745	6.619	57.025	46.492	45.999	Data
54	24.932	6.615	57.022	46.492	45.999	Data
55	24.745	6.619	57.025	46.492	45.999	Data
55	24.932	6.615	57.022	46.492	45.999	Data
56	24.745	6.619	57.025	46.492	45.999	Data
56	24.932	6.615	57.022	46.492	45.999	Data
57	24.745	6.619	57.025	46.492	45.999	Data
57	24.932	6.615	57.022	46.492	45.999	Data
58.5	24.642	6.620	57.001	46.507	46.008	Data
58.5	24.528	6.602	57.005	46.509	46.009	Data
58.5	25.529	6.618	56.990	46.496	45.993	Data
58.5	25.097	6.612	56.989	46.498	45.991	Data
60.5	25.060	6.617	57.019	46.496	46.010	Data
60.5	25.261	6.619	57.025	46.496	46.010	Data
61.75	25.060	6.617	57.019	46.496	46.010	Data
61.75	25.261	6.619	57.025	46.496	46.010	Data
63	25.060	6.617	57.019	46.496	46.010	Data
63	25.261	6.619	57.025	46.496	46.010	Data
64	25.060	6.617	57.019	46.496	46.010	Data
64	25.261	6.619	57.025	46.496	46.010	Data

Table 511: Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.208	6.595	56.983	46.502	46.507	Data
8	25.336	6.613	56.990	46.501	46.507	Data
8	25.174	6.594	56.981	46.498	46.498	Data
8	25.167	6.634	56.994	46.499	46.498	Data
30	25.208	6.595	56.983	46.502	46.507	Data
30	25.167	6.634	56.994	46.499	46.498	Data
30	25.174	6.594	56.981	46.498	46.498	Data
30	25.336	6.613	56.990	46.501	46.507	Data
46.5	25.336	6.613	56.990	46.501	46.507	Data
46.5	25.167	6.634	56.994	46.499	46.498	Data
46.5	25.174	6.594	56.981	46.498	46.498	Data
46.5	25.208	6.595	56.983	46.502	46.507	Data
52.5	25.336	6.613	56.990	46.501	46.507	Data
52.5	25.167	6.634	56.994	46.499	46.498	Data
52.5	25.208	6.595	56.983	46.502	46.507	Data
52.5	25.174	6.594	56.981	46.498	46.498	Data
58.5	25.167	6.634	56.994	46.499	46.498	Data
58.5	25.336	6.613	56.990	46.501	46.507	Data
58.5	25.208	6.595	56.983	46.502	46.507	Data
58.5	25.174	6.594	56.981	46.498	46.498	Data

Table 512: Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.270	6.632	57.000	46.509	47.013	Data
8	24.435	6.650	57.003	46.509	47.012	Data
8	25.272	6.633	56.988	46.499	47.042	Data
8	24.607	6.610	56.994	46.498	47.042	Data
30	24.653	6.613	57.021	46.492	46.993	Data
30	24.435	6.650	57.003	46.509	47.012	Data
30	24.270	6.632	57.000	46.509	47.013	Data
30	25.127	6.634	57.020	46.496	47.009	Data
30	25.272	6.633	56.988	46.499	47.042	Data
30	24.702	6.599	57.033	46.49	46.996	Data
30	24.949	6.598	57.041	46.494	47.006	Data
30	24.607	6.610	56.994	46.498	47.042	Data
30	24.777	6.586	57.033	46.489	46.996	Data
30	25.070	6.624	57.023	46.496	47.009	Data
30	24.698	6.610	57.022	46.493	46.993	Data
30	24.946	6.614	57.046	46.493	47.006	Data
42	24.949	6.598	57.041	46.494	47.006	Data
42	24.946	6.614	57.046	46.493	47.006	Data

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	24.949	6.598	57.041	46.494	47.006	Data
43	24.946	6.614	57.046	46.493	47.006	Data
44	24.949	6.598	57.041	46.494	47.006	Data
44	24.946	6.614	57.046	46.493	47.006	Data
45	24.949	6.598	57.041	46.494	47.006	Data
45	24.946	6.614	57.046	46.493	47.006	Data
46.5	24.607	6.610	56.994	46.498	47.042	Data
46.5	24.270	6.632	57.000	46.509	47.013	Data
46.5	25.272	6.633	56.988	46.499	47.042	Data
46.5	24.435	6.650	57.003	46.509	47.012	Data
48	24.777	6.586	57.033	46.489	46.996	Data
48	24.702	6.599	57.033	46.49	46.996	Data
49	24.777	6.586	57.033	46.489	46.996	Data
49	24.702	6.599	57.033	46.49	46.996	Data
50	24.777	6.586	57.033	46.489	46.996	Data
50	24.702	6.599	57.033	46.49	46.996	Data
51	24.777	6.586	57.033	46.489	46.996	Data
51	24.702	6.599	57.033	46.49	46.996	Data
52.5	24.607	6.610	56.994	46.498	47.042	Data
52.5	24.270	6.632	57.000	46.509	47.013	Data
52.5	25.272	6.633	56.988	46.499	47.042	Data
52.5	24.435	6.650	57.003	46.509	47.012	Data
54	24.653	6.613	57.021	46.492	46.993	Data
54	24.698	6.610	57.022	46.493	46.993	Data
55	24.653	6.613	57.021	46.492	46.993	Data
55	24.698	6.610	57.022	46.493	46.993	Data
56	24.653	6.613	57.021	46.492	46.993	Data
56	24.698	6.610	57.022	46.493	46.993	Data
57	24.653	6.613	57.021	46.492	46.993	Data
57	24.698	6.610	57.022	46.493	46.993	Data
58.5	25.272	6.633	56.988	46.499	47.042	Data
58.5	24.270	6.632	57.000	46.509	47.013	Data
58.5	24.607	6.610	56.994	46.498	47.042	Data
58.5	24.435	6.650	57.003	46.509	47.012	Data
60.5	25.127	6.634	57.020	46.496	47.009	Data
60.5	25.070	6.624	57.023	46.496	47.009	Data
61.75	25.127	6.634	57.020	46.496	47.009	Data
61.75	25.070	6.624	57.023	46.496	47.009	Data
63	25.127	6.634	57.020	46.496	47.009	Data
63	25.070	6.624	57.023	46.496	47.009	Data
64	25.070	6.624	57.023	46.496	47.009	Data
64	25.127	6.634	57.020	46.496	47.009	Data

Table 513: Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.155	6.618	56.986	46.499	48.019	Data
8	24.659	6.633	57.002	46.508	48.014	Data
8	24.351	6.622	57.004	46.507	48.013	Data
8	25.076	6.590	56.988	46.497	48.020	Data
30	24.592	6.626	57.020	46.492	48.010	Data
30	24.659	6.633	57.002	46.508	48.014	Data
30	24.560	6.619	57.022	46.491	48.009	Data
30	25.155	6.618	56.986	46.499	48.019	Data
30	24.769	6.585	57.028	46.489	48.009	Data
30	25.076	6.590	56.988	46.497	48.020	Data
30	25.166	6.608	57.024	46.495	48.018	Data
30	25.114	6.605	57.035	46.493	48.007	Data
30	24.951	6.608	57.018	46.497	48.019	Data
30	24.351	6.622	57.004	46.507	48.013	Data
30	24.763	6.599	57.034	46.495	48.007	Data
30	24.834	6.596	57.026	46.49	48.009	Data
42	25.114	6.605	57.035	46.493	48.007	Data
42	24.763	6.599	57.034	46.495	48.007	Data
43	25.114	6.605	57.035	46.493	48.007	Data
43	24.763	6.599	57.034	46.495	48.007	Data
44	25.114	6.605	57.035	46.493	48.007	Data
44	24.763	6.599	57.034	46.495	48.007	Data
45	25.114	6.605	57.035	46.493	48.007	Data
45	24.763	6.599	57.034	46.495	48.007	Data
46.5	24.659	6.633	57.002	46.508	48.014	Data
46.5	24.351	6.622	57.004	46.507	48.013	Data
46.5	25.155	6.618	56.986	46.499	48.019	Data
46.5	25.076	6.590	56.988	46.497	48.020	Data
48	24.769	6.585	57.028	46.489	48.009	Data
48	24.834	6.596	57.026	46.49	48.009	Data
49	24.834	6.596	57.026	46.49	48.009	Data
49	24.769	6.585	57.028	46.489	48.009	Data
50	24.834	6.596	57.026	46.49	48.009	Data
50	24.769	6.585	57.028	46.489	48.009	Data
51	24.834	6.596	57.026	46.49	48.009	Data
51	24.769	6.585	57.028	46.489	48.009	Data
52.5	24.351	6.622	57.004	46.507	48.013	Data
52.5	24.659	6.633	57.002	46.508	48.014	Data
52.5	25.155	6.618	56.986	46.499	48.019	Data
52.5	25.076	6.590	56.988	46.497	48.020	Data
54	24.560	6.619	57.022	46.491	48.009	Data
54	24.592	6.626	57.020	46.492	48.010	Data
55	24.560	6.619	57.022	46.491	48.009	Data
55	24.592	6.626	57.020	46.492	48.010	Data

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	24.560	6.619	57.022	46.491	48.009	Data
56	24.592	6.626	57.020	46.492	48.010	Data
57	24.560	6.619	57.022	46.491	48.009	Data
57	24.592	6.626	57.020	46.492	48.010	Data
58.5	24.351	6.622	57.004	46.507	48.013	Data
58.5	24.659	6.633	57.002	46.508	48.014	Data
58.5	25.076	6.590	56.988	46.497	48.020	Data
58.5	25.155	6.618	56.986	46.499	48.019	Data
60.5	24.951	6.608	57.018	46.497	48.019	Data
60.5	25.166	6.608	57.024	46.495	48.018	Data
61.75	24.951	6.608	57.018	46.497	48.019	Data
61.75	25.166	6.608	57.024	46.495	48.018	Data
63	24.951	6.608	57.018	46.497	48.019	Data
63	25.166	6.608	57.024	46.495	48.018	Data
64	25.166	6.608	57.024	46.495	48.018	Data
64	24.951	6.608	57.018	46.497	48.019	Data

Table 514: Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.570	6.648	57.005	46.509	48.999	Data
8	25.482	6.618	56.991	46.497	49.012	Data
8	24.974	6.596	57.026	46.5	49.052	Data
8	24.782	6.617	57.025	46.499	49.051	Data
8	24.505	6.658	57.004	46.508	49.000	Data
8	25.064	6.615	56.990	46.498	49.012	Data
30	25.482	6.618	56.991	46.497	49.012	Data
30	24.505	6.658	57.004	46.508	49.000	Data
30	24.570	6.648	57.005	46.509	48.999	Data
30	24.974	6.596	57.026	46.5	49.052	Data
30	24.834	6.599	57.040	46.493	49.006	Data
30	24.555	6.618	57.022	46.493	49.011	Data
30	25.037	6.626	57.021	46.496	49.000	Data
30	25.064	6.615	56.990	46.498	49.012	Data
30	24.767	6.610	57.023	46.491	49.011	Data
30	25.162	6.604	57.019	46.496	49.000	Data
30	24.618	6.614	57.039	46.493	49.006	Data
30	24.717	6.592	57.026	46.491	49.001	Data
30	24.782	6.617	57.025	46.499	49.051	Data
30	24.781	6.594	57.026	46.489	49.002	Data
42	24.618	6.614	57.039	46.493	49.006	Data
42	24.834	6.599	57.040	46.493	49.006	Data

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
43	24.618	6.614	57.039	46.493	49.006	Data
43	24.834	6.599	57.040	46.493	49.006	Data
44	24.618	6.614	57.039	46.493	49.006	Data
44	24.834	6.599	57.040	46.493	49.006	Data
45	24.618	6.614	57.039	46.493	49.006	Data
45	24.834	6.599	57.040	46.493	49.006	Data
46.5	25.064	6.615	56.990	46.498	49.012	Data
46.5	24.505	6.658	57.004	46.508	49.000	Data
46.5	24.570	6.648	57.005	46.509	48.999	Data
46.5	25.482	6.618	56.991	46.497	49.012	Data
46.5	24.782	6.617	57.025	46.499	49.051	Data
46.5	24.974	6.596	57.026	46.5	49.052	Data
48	24.781	6.594	57.026	46.489	49.002	Data
48	24.717	6.592	57.026	46.491	49.001	Data
49	24.781	6.594	57.026	46.489	49.002	Data
49	24.717	6.592	57.026	46.491	49.001	Data
50	24.781	6.594	57.026	46.489	49.002	Data
50	24.717	6.592	57.026	46.491	49.001	Data
51	24.781	6.594	57.026	46.489	49.002	Data
51	24.717	6.592	57.026	46.491	49.001	Data
52.5	24.505	6.658	57.004	46.508	49.000	Data
52.5	25.064	6.615	56.990	46.498	49.012	Data
52.5	25.482	6.618	56.991	46.497	49.012	Data
52.5	24.782	6.617	57.025	46.499	49.051	Data
52.5	24.570	6.648	57.005	46.509	48.999	Data
52.5	24.974	6.596	57.026	46.5	49.052	Data
54	24.767	6.610	57.023	46.491	49.011	Data
54	24.555	6.618	57.022	46.493	49.011	Data
55	24.767	6.610	57.023	46.491	49.011	Data
55	24.555	6.618	57.022	46.493	49.011	Data
56	24.767	6.610	57.023	46.491	49.011	Data
56	24.555	6.618	57.022	46.493	49.011	Data
57	24.555	6.618	57.022	46.493	49.011	Data
57	24.767	6.610	57.023	46.491	49.011	Data
58.5	24.505	6.658	57.004	46.508	49.000	Data
58.5	25.482	6.618	56.991	46.497	49.012	Data
58.5	25.064	6.615	56.990	46.498	49.012	Data
58.5	24.782	6.617	57.025	46.499	49.051	Data
58.5	24.570	6.648	57.005	46.509	48.999	Data
58.5	24.974	6.596	57.026	46.5	49.052	Data
60.5	25.162	6.604	57.019	46.496	49.000	Data
60.5	25.037	6.626	57.021	46.496	49.000	Data
61.75	25.162	6.604	57.019	46.496	49.000	Data
61.75	25.037	6.626	57.021	46.496	49.000	Data

Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
63	25.162	6.604	57.019	46.496	49.000	Data
63	25.037	6.626	57.021	46.496	49.000	Data
64	25.162	6.604	57.019	46.496	49.000	Data
64	25.037	6.626	57.021	46.496	49.000	Data

Table 515: Vertical sweep VG at 46.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=46.5 (in)

D.49. Vertical VG vortex sweep at y=52.5 (in), q=25, α_{VG}=4, α_W=7, SQ-tip

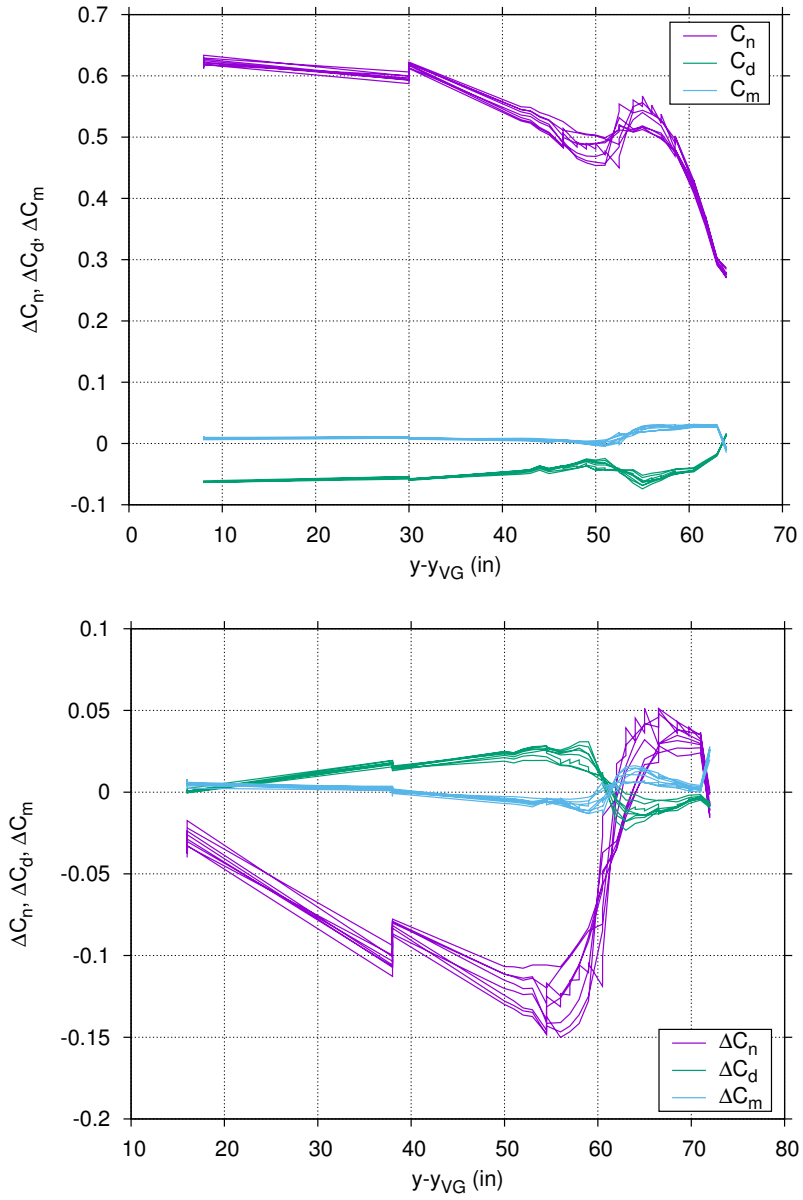

Figure 102. Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.084	6.623	57.012	52.495	41.996	Data
8	25.099	6.642	57.007	52.495	41.997	Data
30	25.288	6.601	57.031	52.511	42.002	Data
30	25.621	6.589	57.021	52.504	41.995	Data
30	25.339	6.607	57.030	52.51	42.003	Data
30	25.492	6.610	57.021	52.503	41.993	Data
30	24.956	6.614	57.028	52.497	42.004	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.099	6.642	57.007	52.495	41.997	Data
30	24.807	6.618	57.028	52.499	42.006	Data
30	25.020	6.586	57.074	52.501	41.993	Data
30	25.084	6.623	57.012	52.495	41.996	Data
30	25.045	6.598	57.078	52.5	41.993	Data
42	25.339	6.607	57.030	52.51	42.003	Data
42	25.288	6.601	57.031	52.511	42.002	Data
43	25.339	6.607	57.030	52.51	42.003	Data
43	25.288	6.601	57.031	52.511	42.002	Data
44	25.339	6.607	57.030	52.51	42.003	Data
44	25.288	6.601	57.031	52.511	42.002	Data
45	25.339	6.607	57.030	52.51	42.003	Data
45	25.288	6.601	57.031	52.511	42.002	Data
46.5	25.084	6.623	57.012	52.495	41.996	Data
46.5	25.099	6.642	57.007	52.495	41.997	Data
48	25.020	6.586	57.074	52.501	41.993	Data
48	25.045	6.598	57.078	52.5	41.993	Data
49	25.020	6.586	57.074	52.501	41.993	Data
49	25.045	6.598	57.078	52.5	41.993	Data
50	25.020	6.586	57.074	52.501	41.993	Data
50	25.045	6.598	57.078	52.5	41.993	Data
51	25.020	6.586	57.074	52.501	41.993	Data
51	25.045	6.598	57.078	52.5	41.993	Data
52.5	25.084	6.623	57.012	52.495	41.996	Data
52.5	25.099	6.642	57.007	52.495	41.997	Data
54	24.956	6.614	57.028	52.497	42.004	Data
54	24.807	6.618	57.028	52.499	42.006	Data
55	24.956	6.614	57.028	52.497	42.004	Data
55	24.807	6.618	57.028	52.499	42.006	Data
56	24.956	6.614	57.028	52.497	42.004	Data
56	24.807	6.618	57.028	52.499	42.006	Data
57	24.956	6.614	57.028	52.497	42.004	Data
57	24.807	6.618	57.028	52.499	42.006	Data
58.5	25.084	6.623	57.012	52.495	41.996	Data
58.5	25.099	6.642	57.007	52.495	41.997	Data
60.5	25.492	6.610	57.021	52.503	41.993	Data
60.5	25.621	6.589	57.021	52.504	41.995	Data
61.75	25.492	6.610	57.021	52.503	41.993	Data
61.75	25.621	6.589	57.021	52.504	41.995	Data
63	25.492	6.610	57.021	52.503	41.993	Data
63	25.621	6.589	57.021	52.504	41.995	Data
64	25.492	6.610	57.021	52.503	41.993	Data
64	25.621	6.589	57.021	52.504	41.995	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 516: Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.207	6.630	57.010	52.495	43.007	Data
8	25.085	6.607	57.008	52.496	43.008	Data
30	24.757	6.613	57.019	52.497	43.008	Data
30	25.468	6.617	57.023	52.503	43.011	Data
30	25.085	6.607	57.008	52.496	43.008	Data
30	25.506	6.609	57.017	52.504	43.012	Data
30	25.207	6.630	57.010	52.495	43.007	Data
30	25.201	6.605	57.030	52.511	43.001	Data
30	24.718	6.602	57.031	52.499	43.008	Data
30	25.322	6.602	57.022	52.51	43.002	Data
30	25.069	6.600	57.065	52.5	43.000	Data
30	24.887	6.583	57.072	52.5	42.999	Data
42	25.201	6.605	57.030	52.511	43.001	Data
42	25.322	6.602	57.022	52.51	43.002	Data
43	25.201	6.605	57.030	52.511	43.001	Data
43	25.322	6.602	57.022	52.51	43.002	Data
44	25.201	6.605	57.030	52.511	43.001	Data
44	25.322	6.602	57.022	52.51	43.002	Data
45	25.201	6.605	57.030	52.511	43.001	Data
45	25.322	6.602	57.022	52.51	43.002	Data
46.5	25.085	6.607	57.008	52.496	43.008	Data
46.5	25.207	6.630	57.010	52.495	43.007	Data
48	24.887	6.583	57.072	52.5	42.999	Data
48	25.069	6.600	57.065	52.5	43.000	Data
49	24.887	6.583	57.072	52.5	42.999	Data
49	25.069	6.600	57.065	52.5	43.000	Data
50	24.887	6.583	57.072	52.5	42.999	Data
50	25.069	6.600	57.065	52.5	43.000	Data
51	24.887	6.583	57.072	52.5	42.999	Data
51	25.069	6.600	57.065	52.5	43.000	Data
52.5	25.085	6.607	57.008	52.496	43.008	Data
52.5	25.207	6.630	57.010	52.495	43.007	Data
54	24.718	6.602	57.031	52.499	43.008	Data
54	24.757	6.613	57.019	52.497	43.008	Data
55	24.718	6.602	57.031	52.499	43.008	Data
55	24.757	6.613	57.019	52.497	43.008	Data
56	24.757	6.613	57.019	52.497	43.008	Data
56	24.718	6.602	57.031	52.499	43.008	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	24.757	6.613	57.019	52.497	43.008	Data
57	24.718	6.602	57.031	52.499	43.008	Data
58.5	25.207	6.630	57.010	52.495	43.007	Data
58.5	25.085	6.607	57.008	52.496	43.008	Data
60.5	25.506	6.609	57.017	52.504	43.012	Data
60.5	25.468	6.617	57.023	52.503	43.011	Data
61.75	25.506	6.609	57.017	52.504	43.012	Data
61.75	25.468	6.617	57.023	52.503	43.011	Data
63	25.506	6.609	57.017	52.504	43.012	Data
63	25.468	6.617	57.023	52.503	43.011	Data
64	25.506	6.609	57.017	52.504	43.012	Data
64	25.468	6.617	57.023	52.503	43.011	Data

Table 517: Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.143	6.626	57.009	52.496	44.005	Data
8	25.322	6.610	56.990	52.5	43.989	Data
8	25.009	6.629	57.009	52.496	44.005	Data
8	25.319	6.612	56.991	52.5	43.989	Data
30	25.322	6.610	56.990	52.5	43.989	Data
30	25.420	6.615	57.022	52.504	43.986	Data
30	25.152	6.594	57.047	52.496	43.998	Data
30	25.009	6.629	57.009	52.496	44.005	Data
30	24.792	6.612	57.022	52.498	44.019	Data
30	25.143	6.626	57.009	52.496	44.005	Data
30	25.341	6.587	57.047	52.496	43.998	Data
30	25.543	6.605	57.028	52.504	43.986	Data
30	25.199	6.616	57.021	52.498	44.019	Data
30	25.275	6.587	57.016	52.502	44.062	Data
30	25.319	6.612	56.991	52.5	43.989	Data
30	25.094	6.616	57.060	52.509	44.004	Data
30	24.998	6.606	57.022	52.509	43.994	Data
30	25.164	6.580	57.007	52.501	44.061	Data
30	24.769	6.587	57.070	52.501	44.002	Data
30	24.874	6.587	57.060	52.499	44.002	Data
30	24.952	6.606	57.031	52.511	43.994	Data
30	25.144	6.600	57.049	52.503	43.997	Data
30	25.204	6.619	57.038	52.504	43.997	Data
30	25.060	6.603	57.068	52.509	44.003	Data
42	25.094	6.616	57.060	52.509	44.004	Data
42	25.060	6.603	57.068	52.509	44.003	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
42	24.952	6.606	57.031	52.511	43.994	Data
42	24.998	6.606	57.022	52.509	43.994	Data
43	25.060	6.603	57.068	52.509	44.003	Data
43	25.094	6.616	57.060	52.509	44.004	Data
43	24.952	6.606	57.031	52.511	43.994	Data
43	24.998	6.606	57.022	52.509	43.994	Data
44	25.060	6.603	57.068	52.509	44.003	Data
44	25.094	6.616	57.060	52.509	44.004	Data
44	24.952	6.606	57.031	52.511	43.994	Data
44	24.998	6.606	57.022	52.509	43.994	Data
45	25.060	6.603	57.068	52.509	44.003	Data
45	25.094	6.616	57.060	52.509	44.004	Data
45	24.952	6.606	57.031	52.511	43.994	Data
45	24.998	6.606	57.022	52.509	43.994	Data
46.5	25.009	6.629	57.009	52.496	44.005	Data
46.5	25.322	6.610	56.990	52.5	43.989	Data
46.5	25.143	6.626	57.009	52.496	44.005	Data
46.5	25.319	6.612	56.991	52.5	43.989	Data
48	24.874	6.587	57.060	52.499	44.002	Data
48	24.769	6.587	57.070	52.501	44.002	Data
48	25.152	6.594	57.047	52.496	43.998	Data
48	25.341	6.587	57.047	52.496	43.998	Data
49	24.874	6.587	57.060	52.499	44.002	Data
49	24.769	6.587	57.070	52.501	44.002	Data
49	25.152	6.594	57.047	52.496	43.998	Data
49	25.341	6.587	57.047	52.496	43.998	Data
50	24.874	6.587	57.060	52.499	44.002	Data
50	24.769	6.587	57.070	52.501	44.002	Data
50	25.152	6.594	57.047	52.496	43.998	Data
50	25.341	6.587	57.047	52.496	43.998	Data
51	24.874	6.587	57.060	52.499	44.002	Data
51	24.769	6.587	57.070	52.501	44.002	Data
51	25.152	6.594	57.047	52.496	43.998	Data
51	25.341	6.587	57.047	52.496	43.998	Data
52.5	25.322	6.610	56.990	52.5	43.989	Data
52.5	25.009	6.629	57.009	52.496	44.005	Data
52.5	25.143	6.626	57.009	52.496	44.005	Data
52.5	25.319	6.612	56.991	52.5	43.989	Data
54	25.164	6.580	57.007	52.501	44.061	Data
54	25.275	6.587	57.016	52.502	44.062	Data
54	25.199	6.616	57.021	52.498	44.019	Data
54	24.792	6.612	57.022	52.498	44.019	Data
55	25.164	6.580	57.007	52.501	44.061	Data
55	25.275	6.587	57.016	52.502	44.062	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
55	25.199	6.616	57.021	52.498	44.019	Data
55	24.792	6.612	57.022	52.498	44.019	Data
56	25.164	6.580	57.007	52.501	44.061	Data
56	25.275	6.587	57.016	52.502	44.062	Data
56	25.199	6.616	57.021	52.498	44.019	Data
56	24.792	6.612	57.022	52.498	44.019	Data
57	25.164	6.580	57.007	52.501	44.061	Data
57	25.275	6.587	57.016	52.502	44.062	Data
57	25.199	6.616	57.021	52.498	44.019	Data
57	24.792	6.612	57.022	52.498	44.019	Data
58.5	25.322	6.610	56.990	52.5	43.989	Data
58.5	25.009	6.629	57.009	52.496	44.005	Data
58.5	25.143	6.626	57.009	52.496	44.005	Data
58.5	25.319	6.612	56.991	52.5	43.989	Data
60.5	25.204	6.619	57.038	52.504	43.997	Data
60.5	25.420	6.615	57.022	52.504	43.986	Data
60.5	25.144	6.600	57.049	52.503	43.997	Data
60.5	25.543	6.605	57.028	52.504	43.986	Data
61.75	25.204	6.619	57.038	52.504	43.997	Data
61.75	25.420	6.615	57.022	52.504	43.986	Data
61.75	25.144	6.600	57.049	52.503	43.997	Data
61.75	25.543	6.605	57.028	52.504	43.986	Data
63	25.204	6.619	57.038	52.504	43.997	Data
63	25.420	6.615	57.022	52.504	43.986	Data
63	25.144	6.600	57.049	52.503	43.997	Data
63	25.543	6.605	57.028	52.504	43.986	Data
64	25.204	6.619	57.038	52.504	43.997	Data
64	25.420	6.615	57.022	52.504	43.986	Data
64	25.144	6.600	57.049	52.503	43.997	Data
64	25.543	6.605	57.028	52.504	43.986	Data

Table 518: Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.137	6.609	56.992	52.5	44.998	Data
8	25.198	6.628	57.004	52.496	44.992	Data
8	25.042	6.597	56.990	52.499	44.997	Data
8	25.059	6.628	57.006	52.497	44.992	Data
30	24.757	6.605	57.023	52.496	44.994	Data
30	24.605	6.611	57.024	52.497	44.994	Data
30	24.691	6.592	57.070	52.5	44.997	Data
30	25.042	6.597	56.990	52.499	44.997	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.453	6.612	57.028	52.505	45.004	Data
30	25.198	6.628	57.004	52.496	44.992	Data
30	25.137	6.609	56.992	52.5	44.998	Data
30	25.268	6.614	57.032	52.51	44.992	Data
30	25.059	6.628	57.006	52.497	44.992	Data
30	25.118	6.598	57.027	52.51	44.992	Data
30	25.409	6.625	57.019	52.504	45.004	Data
30	24.848	6.602	57.065	52.5	44.997	Data
42	25.268	6.614	57.032	52.51	44.992	Data
42	25.118	6.598	57.027	52.51	44.992	Data
43	25.268	6.614	57.032	52.51	44.992	Data
43	25.118	6.598	57.027	52.51	44.992	Data
44	25.268	6.614	57.032	52.51	44.992	Data
44	25.118	6.598	57.027	52.51	44.992	Data
45	25.268	6.614	57.032	52.51	44.992	Data
45	25.118	6.598	57.027	52.51	44.992	Data
46.5	25.198	6.628	57.004	52.496	44.992	Data
46.5	25.059	6.628	57.006	52.497	44.992	Data
46.5	25.042	6.597	56.990	52.499	44.997	Data
46.5	25.137	6.609	56.992	52.5	44.998	Data
48	24.691	6.592	57.070	52.5	44.997	Data
48	24.848	6.602	57.065	52.5	44.997	Data
49	24.691	6.592	57.070	52.5	44.997	Data
49	24.848	6.602	57.065	52.5	44.997	Data
50	24.691	6.592	57.070	52.5	44.997	Data
50	24.848	6.602	57.065	52.5	44.997	Data
51	24.691	6.592	57.070	52.5	44.997	Data
51	24.848	6.602	57.065	52.5	44.997	Data
52.5	25.198	6.628	57.004	52.496	44.992	Data
52.5	25.042	6.597	56.990	52.499	44.997	Data
52.5	25.137	6.609	56.992	52.5	44.998	Data
52.5	25.059	6.628	57.006	52.497	44.992	Data
54	24.605	6.611	57.024	52.497	44.994	Data
54	24.757	6.605	57.023	52.496	44.994	Data
55	24.605	6.611	57.024	52.497	44.994	Data
55	24.757	6.605	57.023	52.496	44.994	Data
56	24.605	6.611	57.024	52.497	44.994	Data
56	24.757	6.605	57.023	52.496	44.994	Data
57	24.605	6.611	57.024	52.497	44.994	Data
57	24.757	6.605	57.023	52.496	44.994	Data
58.5	25.198	6.628	57.004	52.496	44.992	Data
58.5	25.137	6.609	56.992	52.5	44.998	Data
58.5	25.042	6.597	56.990	52.499	44.997	Data
58.5	25.059	6.628	57.006	52.497	44.992	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
60.5	25.453	6.612	57.028	52.505	45.004	Data
60.5	25.409	6.625	57.019	52.504	45.004	Data
61.75	25.453	6.612	57.028	52.505	45.004	Data
61.75	25.409	6.625	57.019	52.504	45.004	Data
63	25.409	6.625	57.019	52.504	45.004	Data
63	25.453	6.612	57.028	52.505	45.004	Data
64	25.453	6.612	57.028	52.505	45.004	Data
64	25.409	6.625	57.019	52.504	45.004	Data

Table 519: Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.164	6.608	57.006	52.495	45.998	Data
8	25.156	6.611	56.990	52.498	46.010	Data
8	25.349	6.618	56.986	52.499	46.010	Data
8	25.006	6.622	57.014	52.494	45.998	Data
30	24.827	6.596	57.021	52.499	45.995	Data
30	25.378	6.623	57.020	52.505	46.008	Data
30	25.156	6.611	56.990	52.498	46.010	Data
30	25.006	6.622	57.014	52.494	45.998	Data
30	24.609	6.621	57.020	52.498	45.995	Data
30	25.159	6.615	57.030	52.51	46.002	Data
30	24.680	6.586	57.069	52.501	46.004	Data
30	25.164	6.608	57.006	52.495	45.998	Data
30	24.790	6.592	57.058	52.5	46.004	Data
30	25.328	6.621	57.016	52.504	46.006	Data
30	25.349	6.618	56.986	52.499	46.010	Data
30	25.085	6.615	57.028	52.51	46.002	Data
42	25.159	6.615	57.030	52.51	46.002	Data
42	25.085	6.615	57.028	52.51	46.002	Data
43	25.159	6.615	57.030	52.51	46.002	Data
43	25.085	6.615	57.028	52.51	46.002	Data
44	25.159	6.615	57.030	52.51	46.002	Data
44	25.085	6.615	57.028	52.51	46.002	Data
45	25.159	6.615	57.030	52.51	46.002	Data
45	25.085	6.615	57.028	52.51	46.002	Data
46.5	25.156	6.611	56.990	52.498	46.010	Data
46.5	25.164	6.608	57.006	52.495	45.998	Data
46.5	25.349	6.618	56.986	52.499	46.010	Data
46.5	25.006	6.622	57.014	52.494	45.998	Data
48	24.680	6.586	57.069	52.501	46.004	Data
48	24.790	6.592	57.058	52.5	46.004	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
49	24.680	6.586	57.069	52.501	46.004	Data
49	24.790	6.592	57.058	52.5	46.004	Data
50	24.680	6.586	57.069	52.501	46.004	Data
50	24.790	6.592	57.058	52.5	46.004	Data
51	24.680	6.586	57.069	52.501	46.004	Data
51	24.790	6.592	57.058	52.5	46.004	Data
52.5	25.156	6.611	56.990	52.498	46.010	Data
52.5	25.349	6.618	56.986	52.499	46.010	Data
52.5	25.164	6.608	57.006	52.495	45.998	Data
52.5	25.006	6.622	57.014	52.494	45.998	Data
54	24.827	6.596	57.021	52.499	45.995	Data
54	24.609	6.621	57.020	52.498	45.995	Data
55	24.827	6.596	57.021	52.499	45.995	Data
55	24.609	6.621	57.020	52.498	45.995	Data
56	24.827	6.596	57.021	52.499	45.995	Data
56	24.609	6.621	57.020	52.498	45.995	Data
57	24.827	6.596	57.021	52.499	45.995	Data
57	24.609	6.621	57.020	52.498	45.995	Data
58.5	25.164	6.608	57.006	52.495	45.998	Data
58.5	25.349	6.618	56.986	52.499	46.010	Data
58.5	25.156	6.611	56.990	52.498	46.010	Data
58.5	25.006	6.622	57.014	52.494	45.998	Data
60.5	25.378	6.623	57.020	52.505	46.008	Data
60.5	25.328	6.621	57.016	52.504	46.006	Data
61.75	25.378	6.623	57.020	52.505	46.008	Data
61.75	25.328	6.621	57.016	52.504	46.006	Data
63	25.378	6.623	57.020	52.505	46.008	Data
63	25.328	6.621	57.016	52.504	46.006	Data
64	25.328	6.621	57.016	52.504	46.006	Data
64	25.378	6.623	57.020	52.505	46.008	Data

Table 520: Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.328	6.605	56.990	52.5	46.507	Data
8	24.994	6.605	56.993	52.5	46.507	Data
8	25.547	6.617	56.987	52.5	46.460	Data
8	25.215	6.623	56.988	52.5	46.459	Data
30	25.328	6.605	56.990	52.5	46.507	Data
30	25.547	6.617	56.987	52.5	46.460	Data
30	25.215	6.623	56.988	52.5	46.459	Data
30	24.994	6.605	56.993	52.5	46.507	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	24.994	6.605	56.993	52.5	46.507	Data
46.5	25.547	6.617	56.987	52.5	46.460	Data
46.5	25.328	6.605	56.990	52.5	46.507	Data
46.5	25.215	6.623	56.988	52.5	46.459	Data
52.5	24.994	6.605	56.993	52.5	46.507	Data
52.5	25.328	6.605	56.990	52.5	46.507	Data
52.5	25.547	6.617	56.987	52.5	46.460	Data
52.5	25.215	6.623	56.988	52.5	46.459	Data
58.5	24.994	6.605	56.993	52.5	46.507	Data
58.5	25.328	6.605	56.990	52.5	46.507	Data
58.5	25.547	6.617	56.987	52.5	46.460	Data
58.5	25.215	6.623	56.988	52.5	46.459	Data

Table 521: Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.920	6.611	57.016	52.496	46.991	Data
8	24.794	6.638	57.010	52.496	46.991	Data
8	25.215	6.617	56.989	52.5	47.016	Data
8	25.522	6.613	56.993	52.5	47.016	Data
30	24.945	6.609	57.023	52.499	46.991	Data
30	24.794	6.638	57.010	52.496	46.991	Data
30	24.920	6.611	57.016	52.496	46.991	Data
30	24.921	6.618	57.039	52.509	47.007	Data
30	25.371	6.616	57.026	52.504	46.995	Data
30	25.215	6.617	56.989	52.5	47.016	Data
30	24.829	6.611	57.026	52.497	46.992	Data
30	25.263	6.616	57.026	52.504	46.995	Data
30	24.825	6.592	57.066	52.501	47.013	Data
30	24.512	6.595	57.058	52.501	47.013	Data
30	25.522	6.613	56.993	52.5	47.016	Data
30	25.060	6.607	57.031	52.51	47.006	Data
42	24.921	6.618	57.039	52.509	47.007	Data
42	25.060	6.607	57.031	52.51	47.006	Data
43	24.921	6.618	57.039	52.509	47.007	Data
43	25.060	6.607	57.031	52.51	47.006	Data
44	24.921	6.618	57.039	52.509	47.007	Data
44	25.060	6.607	57.031	52.51	47.006	Data
45	24.921	6.618	57.039	52.509	47.007	Data
45	25.060	6.607	57.031	52.51	47.006	Data
46.5	25.215	6.617	56.989	52.5	47.016	Data
46.5	24.794	6.638	57.010	52.496	46.991	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	25.522	6.613	56.993	52.5	47.016	Data
46.5	24.920	6.611	57.016	52.496	46.991	Data
48	24.512	6.595	57.058	52.501	47.013	Data
48	24.825	6.592	57.066	52.501	47.013	Data
49	24.512	6.595	57.058	52.501	47.013	Data
49	24.825	6.592	57.066	52.501	47.013	Data
50	24.512	6.595	57.058	52.501	47.013	Data
50	24.825	6.592	57.066	52.501	47.013	Data
51	24.512	6.595	57.058	52.501	47.013	Data
51	24.825	6.592	57.066	52.501	47.013	Data
52.5	25.215	6.617	56.989	52.5	47.016	Data
52.5	24.794	6.638	57.010	52.496	46.991	Data
52.5	24.920	6.611	57.016	52.496	46.991	Data
52.5	25.522	6.613	56.993	52.5	47.016	Data
54	24.945	6.609	57.023	52.499	46.991	Data
54	24.829	6.611	57.026	52.497	46.992	Data
55	24.945	6.609	57.023	52.499	46.991	Data
55	24.829	6.611	57.026	52.497	46.992	Data
56	24.945	6.609	57.023	52.499	46.991	Data
56	24.829	6.611	57.026	52.497	46.992	Data
57	24.945	6.609	57.023	52.499	46.991	Data
57	24.829	6.611	57.026	52.497	46.992	Data
58.5	25.215	6.617	56.989	52.5	47.016	Data
58.5	25.522	6.613	56.993	52.5	47.016	Data
58.5	24.920	6.611	57.016	52.496	46.991	Data
58.5	24.794	6.638	57.010	52.496	46.991	Data
60.5	25.263	6.616	57.026	52.504	46.995	Data
60.5	25.371	6.616	57.026	52.504	46.995	Data
61.75	25.263	6.616	57.026	52.504	46.995	Data
61.75	25.371	6.616	57.026	52.504	46.995	Data
63	25.263	6.616	57.026	52.504	46.995	Data
63	25.371	6.616	57.026	52.504	46.995	Data
64	25.263	6.616	57.026	52.504	46.995	Data
64	25.371	6.616	57.026	52.504	46.995	Data

Table 522: Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.343	6.616	56.992	52.501	48.006	Data
8	24.712	6.621	57.014	52.495	48.002	Data
8	24.798	6.625	57.008	52.494	48.002	Data
8	25.254	6.611	56.988	52.5	48.007	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	24.712	6.621	57.014	52.495	48.002	Data
30	25.343	6.616	56.992	52.501	48.006	Data
30	24.798	6.625	57.008	52.494	48.002	Data
30	24.676	6.625	57.025	52.498	48.003	Data
30	25.179	6.604	57.024	52.503	48.010	Data
30	25.238	6.623	57.023	52.503	48.011	Data
30	24.863	6.616	57.024	52.497	48.003	Data
30	24.933	6.597	57.040	52.5	47.992	Data
30	25.014	6.611	57.039	52.51	48.006	Data
30	24.900	6.608	57.035	52.51	48.006	Data
30	25.254	6.611	56.988	52.5	48.007	Data
30	24.777	6.597	57.045	52.5	47.992	Data
42	24.900	6.608	57.035	52.51	48.006	Data
42	25.014	6.611	57.039	52.51	48.006	Data
43	24.900	6.608	57.035	52.51	48.006	Data
43	25.014	6.611	57.039	52.51	48.006	Data
44	24.900	6.608	57.035	52.51	48.006	Data
44	25.014	6.611	57.039	52.51	48.006	Data
45	24.900	6.608	57.035	52.51	48.006	Data
45	25.014	6.611	57.039	52.51	48.006	Data
46.5	24.798	6.625	57.008	52.494	48.002	Data
46.5	25.343	6.616	56.992	52.501	48.006	Data
46.5	24.712	6.621	57.014	52.495	48.002	Data
46.5	25.254	6.611	56.988	52.5	48.007	Data
48	24.777	6.597	57.045	52.5	47.992	Data
48	24.933	6.597	57.040	52.5	47.992	Data
49	24.777	6.597	57.045	52.5	47.992	Data
49	24.933	6.597	57.040	52.5	47.992	Data
50	24.777	6.597	57.045	52.5	47.992	Data
50	24.933	6.597	57.040	52.5	47.992	Data
51	24.777	6.597	57.045	52.5	47.992	Data
51	24.933	6.597	57.040	52.5	47.992	Data
52.5	25.343	6.616	56.992	52.501	48.006	Data
52.5	24.712	6.621	57.014	52.495	48.002	Data
52.5	24.798	6.625	57.008	52.494	48.002	Data
52.5	25.254	6.611	56.988	52.5	48.007	Data
54	24.863	6.616	57.024	52.497	48.003	Data
54	24.676	6.625	57.025	52.498	48.003	Data
55	24.863	6.616	57.024	52.497	48.003	Data
55	24.676	6.625	57.025	52.498	48.003	Data
56	24.863	6.616	57.024	52.497	48.003	Data
56	24.676	6.625	57.025	52.498	48.003	Data
57	24.863	6.616	57.024	52.497	48.003	Data
57	24.676	6.625	57.025	52.498	48.003	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
58.5	25.343	6.616	56.992	52.501	48.006	Data
58.5	24.712	6.621	57.014	52.495	48.002	Data
58.5	25.254	6.611	56.988	52.5	48.007	Data
58.5	24.798	6.625	57.008	52.494	48.002	Data
60.5	25.238	6.623	57.023	52.503	48.011	Data
60.5	25.179	6.604	57.024	52.503	48.010	Data
61.75	25.238	6.623	57.023	52.503	48.011	Data
61.75	25.179	6.604	57.024	52.503	48.010	Data
63	25.179	6.604	57.024	52.503	48.010	Data
63	25.238	6.623	57.023	52.503	48.011	Data
64	25.179	6.604	57.024	52.503	48.010	Data
64	25.238	6.623	57.023	52.503	48.011	Data

Table 523: Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.159	6.620	56.989	52.498	49.013	Data
8	25.317	6.615	56.993	52.507	49.049	Data
8	24.963	6.621	57.012	52.494	48.990	Data
8	25.069	6.614	56.989	52.498	49.013	Data
8	25.022	6.611	56.998	52.506	49.049	Data
8	24.964	6.625	57.020	52.495	48.988	Data
30	24.834	6.627	57.022	52.497	49.010	Data
30	25.069	6.614	56.989	52.498	49.013	Data
30	25.403	6.615	57.014	52.503	49.000	Data
30	24.963	6.621	57.012	52.494	48.990	Data
30	24.848	6.606	57.018	52.497	49.009	Data
30	25.317	6.615	56.993	52.507	49.049	Data
30	24.964	6.625	57.020	52.495	48.988	Data
30	24.636	6.594	57.044	52.5	48.999	Data
30	25.240	6.612	57.016	52.505	49.000	Data
30	24.641	6.593	57.038	52.499	48.999	Data
30	25.159	6.620	56.989	52.498	49.013	Data
30	25.006	6.602	57.032	52.509	49.001	Data
30	25.022	6.611	56.998	52.506	49.049	Data
30	25.100	6.620	57.039	52.509	49.001	Data
42	25.100	6.620	57.039	52.509	49.001	Data
42	25.006	6.602	57.032	52.509	49.001	Data
43	25.100	6.620	57.039	52.509	49.001	Data
43	25.006	6.602	57.032	52.509	49.001	Data
44	25.100	6.620	57.039	52.509	49.001	Data
44	25.006	6.602	57.032	52.509	49.001	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
45	25.100	6.620	57.039	52.509	49.001	Data
45	25.006	6.602	57.032	52.509	49.001	Data
46.5	25.069	6.614	56.989	52.498	49.013	Data
46.5	24.963	6.621	57.012	52.494	48.990	Data
46.5	25.317	6.615	56.993	52.507	49.049	Data
46.5	24.964	6.625	57.020	52.495	48.988	Data
46.5	25.159	6.620	56.989	52.498	49.013	Data
46.5	25.022	6.611	56.998	52.506	49.049	Data
48	24.636	6.594	57.044	52.5	48.999	Data
48	24.641	6.593	57.038	52.499	48.999	Data
49	24.636	6.594	57.044	52.5	48.999	Data
49	24.641	6.593	57.038	52.499	48.999	Data
50	24.636	6.594	57.044	52.5	48.999	Data
50	24.641	6.593	57.038	52.499	48.999	Data
51	24.636	6.594	57.044	52.5	48.999	Data
51	24.641	6.593	57.038	52.499	48.999	Data
52.5	25.317	6.615	56.993	52.507	49.049	Data
52.5	25.069	6.614	56.989	52.498	49.013	Data
52.5	25.159	6.620	56.989	52.498	49.013	Data
52.5	24.964	6.625	57.020	52.495	48.988	Data
52.5	25.022	6.611	56.998	52.506	49.049	Data
52.5	24.963	6.621	57.012	52.494	48.990	Data
54	24.834	6.627	57.022	52.497	49.010	Data
54	24.848	6.606	57.018	52.497	49.009	Data
55	24.834	6.627	57.022	52.497	49.010	Data
55	24.848	6.606	57.018	52.497	49.009	Data
56	24.834	6.627	57.022	52.497	49.010	Data
56	24.848	6.606	57.018	52.497	49.009	Data
57	24.834	6.627	57.022	52.497	49.010	Data
57	24.848	6.606	57.018	52.497	49.009	Data
58.5	25.317	6.615	56.993	52.507	49.049	Data
58.5	25.159	6.620	56.989	52.498	49.013	Data
58.5	24.964	6.625	57.020	52.495	48.988	Data
58.5	25.069	6.614	56.989	52.498	49.013	Data
58.5	25.022	6.611	56.998	52.506	49.049	Data
58.5	24.963	6.621	57.012	52.494	48.990	Data
60.5	25.403	6.615	57.014	52.503	49.000	Data
60.5	25.240	6.612	57.016	52.505	49.000	Data
61.75	25.403	6.615	57.014	52.503	49.000	Data
61.75	25.240	6.612	57.016	52.505	49.000	Data
63	25.403	6.615	57.014	52.503	49.000	Data
63	25.240	6.612	57.016	52.505	49.000	Data
64	25.240	6.612	57.016	52.505	49.000	Data
64	25.403	6.615	57.014	52.503	49.000	Data

Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 524: Vertical sweep VG at 52.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=52.5 (in)

D.50. Vertical VG vortex sweep at y=58.5 (in), q=25, α_{VG}=4, α_W=7, SQ-tip

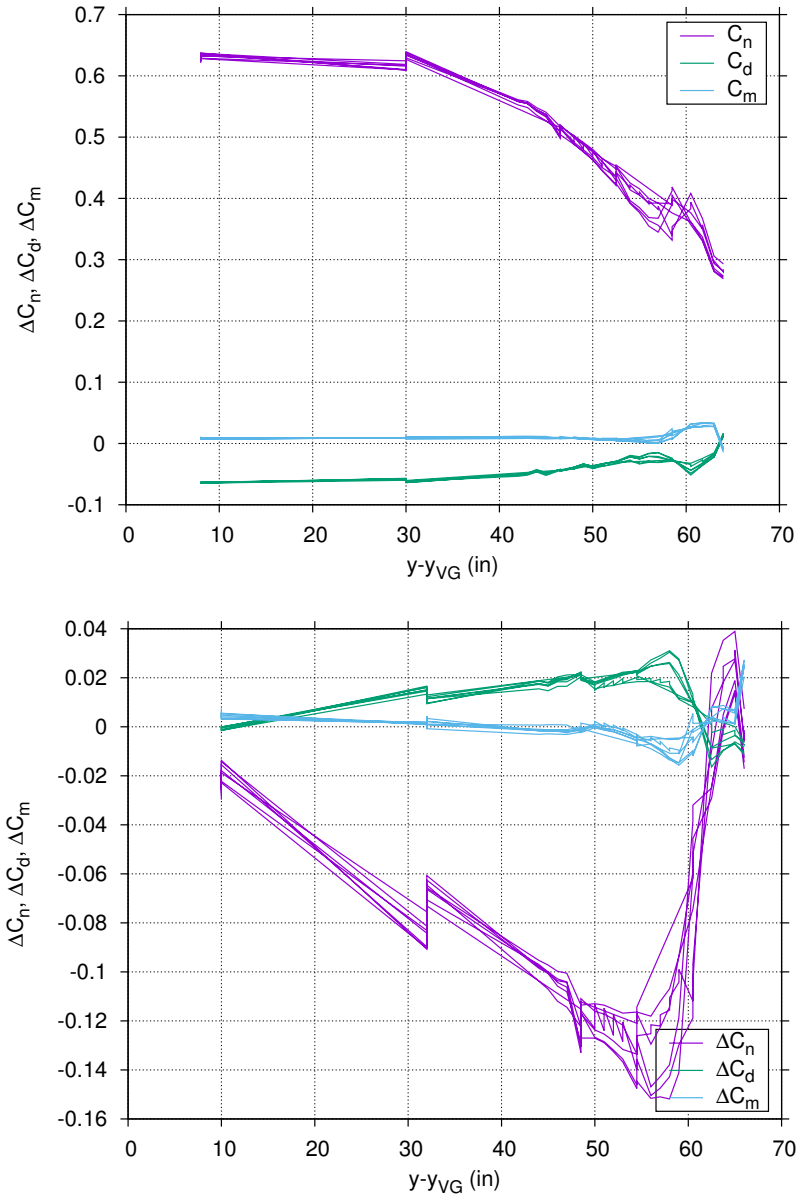

Figure 103. Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.146	6.646	56.992	58.5	43.002	Data
8	25.161	6.639	56.989	58.5	43.003	Data
30	24.968	6.615	57.019	58.502	42.998	Data
30	25.056	6.624	57.026	58.502	42.998	Data
30	25.619	6.598	57.022	58.502	43.012	Data
30	25.111	6.609	57.031	58.501	42.998	Data
30	25.146	6.646	56.992	58.5	43.002	Data

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.096	6.608	57.027	58.502	42.998	Data
30	24.969	6.582	57.074	58.511	43.007	Data
30	25.161	6.639	56.989	58.5	43.003	Data
30	25.064	6.601	57.077	58.51	43.008	Data
30	25.394	6.612	57.019	58.502	43.012	Data
42	25.096	6.608	57.027	58.502	42.998	Data
42	25.111	6.609	57.031	58.501	42.998	Data
43	25.096	6.608	57.027	58.502	42.998	Data
43	25.111	6.609	57.031	58.501	42.998	Data
44	25.096	6.608	57.027	58.502	42.998	Data
44	25.111	6.609	57.031	58.501	42.998	Data
45	25.096	6.608	57.027	58.502	42.998	Data
45	25.111	6.609	57.031	58.501	42.998	Data
46.5	25.161	6.639	56.989	58.5	43.003	Data
46.5	25.146	6.646	56.992	58.5	43.002	Data
48	25.064	6.601	57.077	58.51	43.008	Data
48	24.969	6.582	57.074	58.511	43.007	Data
49	25.064	6.601	57.077	58.51	43.008	Data
49	24.969	6.582	57.074	58.511	43.007	Data
50	25.064	6.601	57.077	58.51	43.008	Data
50	24.969	6.582	57.074	58.511	43.007	Data
51	25.064	6.601	57.077	58.51	43.008	Data
51	24.969	6.582	57.074	58.511	43.007	Data
52.5	25.161	6.639	56.989	58.5	43.003	Data
52.5	25.146	6.646	56.992	58.5	43.002	Data
54	24.968	6.615	57.019	58.502	42.998	Data
54	25.056	6.624	57.026	58.502	42.998	Data
55	24.968	6.615	57.019	58.502	42.998	Data
55	25.056	6.624	57.026	58.502	42.998	Data
56	25.056	6.624	57.026	58.502	42.998	Data
56	24.968	6.615	57.019	58.502	42.998	Data
57	25.056	6.624	57.026	58.502	42.998	Data
57	24.968	6.615	57.019	58.502	42.998	Data
58.5	25.146	6.646	56.992	58.5	43.002	Data
58.5	25.161	6.639	56.989	58.5	43.003	Data
60.5	25.619	6.598	57.022	58.502	43.012	Data
60.5	25.394	6.612	57.019	58.502	43.012	Data
61.75	25.619	6.598	57.022	58.502	43.012	Data
61.75	25.394	6.612	57.019	58.502	43.012	Data
63	25.619	6.598	57.022	58.502	43.012	Data
63	25.394	6.612	57.019	58.502	43.012	Data
64	25.619	6.598	57.022	58.502	43.012	Data
64	25.394	6.612	57.019	58.502	43.012	Data

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 525: Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.018	6.626	56.996	58.5	44.003	Data
8	25.546	6.608	56.992	58.501	43.989	Data
8	24.994	6.618	56.992	58.501	44.003	Data
8	25.345	6.631	56.951	58.503	44.134	Data
8	25.288	6.642	56.961	58.503	44.134	Data
8	25.785	6.619	56.996	58.502	43.989	Data
30	25.057	6.627	57.024	58.503	44.002	Data
30	25.046	6.608	57.062	58.52	44.002	Data
30	25.288	6.642	56.961	58.503	44.134	Data
30	25.176	6.610	57.064	58.52	44.003	Data
30	25.595	6.586	56.974	58.496	44.056	Data
30	25.488	6.616	57.021	58.504	43.992	Data
30	24.994	6.618	56.992	58.501	44.003	Data
30	25.459	6.584	56.970	58.495	44.055	Data
30	24.853	6.602	57.017	58.503	44.002	Data
30	25.546	6.608	56.992	58.501	43.989	Data
30	25.381	6.598	57.024	58.502	43.991	Data
30	25.345	6.631	56.951	58.503	44.134	Data
30	25.182	6.585	57.072	58.51	44.000	Data
30	25.486	6.597	57.042	58.511	43.996	Data
30	25.271	6.591	57.047	58.512	43.996	Data
30	25.018	6.626	56.996	58.5	44.003	Data
30	25.402	6.616	57.026	58.501	43.996	Data
30	25.027	6.601	57.070	58.511	44.000	Data
30	25.495	6.635	57.051	58.502	44.000	Data
30	25.785	6.619	56.996	58.502	43.989	Data
30	25.267	6.592	57.024	58.502	43.996	Data
30	25.286	6.630	57.046	58.5	44.000	Data
42	25.046	6.608	57.062	58.52	44.002	Data
42	25.176	6.610	57.064	58.52	44.003	Data
42	25.267	6.592	57.024	58.502	43.996	Data
42	25.402	6.616	57.026	58.501	43.996	Data
43	25.176	6.610	57.064	58.52	44.003	Data
43	25.046	6.608	57.062	58.52	44.002	Data
43	25.267	6.592	57.024	58.502	43.996	Data
43	25.402	6.616	57.026	58.501	43.996	Data
44	25.176	6.610	57.064	58.52	44.003	Data
44	25.046	6.608	57.062	58.52	44.002	Data

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
44	25.267	6.592	57.024	58.502	43.996	Data
44	25.402	6.616	57.026	58.501	43.996	Data
45	25.176	6.610	57.064	58.52	44.003	Data
45	25.046	6.608	57.062	58.52	44.002	Data
45	25.267	6.592	57.024	58.502	43.996	Data
45	25.402	6.616	57.026	58.501	43.996	Data
46.5	24.994	6.618	56.992	58.501	44.003	Data
46.5	25.018	6.626	56.996	58.5	44.003	Data
46.5	25.546	6.608	56.992	58.501	43.989	Data
46.5	25.345	6.631	56.951	58.503	44.134	Data
46.5	25.288	6.642	56.961	58.503	44.134	Data
46.5	25.785	6.619	56.996	58.502	43.989	Data
48	25.182	6.585	57.072	58.51	44.000	Data
48	25.486	6.597	57.042	58.511	43.996	Data
48	25.271	6.591	57.047	58.512	43.996	Data
48	25.027	6.601	57.070	58.511	44.000	Data
49	25.182	6.585	57.072	58.51	44.000	Data
49	25.486	6.597	57.042	58.511	43.996	Data
49	25.271	6.591	57.047	58.512	43.996	Data
49	25.027	6.601	57.070	58.511	44.000	Data
50	25.182	6.585	57.072	58.51	44.000	Data
50	25.486	6.597	57.042	58.511	43.996	Data
50	25.271	6.591	57.047	58.512	43.996	Data
50	25.027	6.601	57.070	58.511	44.000	Data
51	25.182	6.585	57.072	58.51	44.000	Data
51	25.486	6.597	57.042	58.511	43.996	Data
51	25.271	6.591	57.047	58.512	43.996	Data
51	25.027	6.601	57.070	58.511	44.000	Data
52.5	24.994	6.618	56.992	58.501	44.003	Data
52.5	25.018	6.626	56.996	58.5	44.003	Data
52.5	25.546	6.608	56.992	58.501	43.989	Data
52.5	25.345	6.631	56.951	58.503	44.134	Data
52.5	25.288	6.642	56.961	58.503	44.134	Data
52.5	25.785	6.619	56.996	58.502	43.989	Data
54	25.595	6.586	56.974	58.496	44.056	Data
54	24.853	6.602	57.017	58.503	44.002	Data
54	25.057	6.627	57.024	58.503	44.002	Data
54	25.459	6.584	56.970	58.495	44.055	Data
55	25.595	6.586	56.974	58.496	44.056	Data
55	24.853	6.602	57.017	58.503	44.002	Data
55	25.057	6.627	57.024	58.503	44.002	Data
55	25.459	6.584	56.970	58.495	44.055	Data
56	25.595	6.586	56.974	58.496	44.056	Data
56	24.853	6.602	57.017	58.503	44.002	Data

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
56	25.057	6.627	57.024	58.503	44.002	Data
56	25.459	6.584	56.970	58.495	44.055	Data
57	25.595	6.586	56.974	58.496	44.056	Data
57	25.057	6.627	57.024	58.503	44.002	Data
57	24.853	6.602	57.017	58.503	44.002	Data
57	25.459	6.584	56.970	58.495	44.055	Data
58.5	25.288	6.642	56.961	58.503	44.134	Data
58.5	24.994	6.618	56.992	58.501	44.003	Data
58.5	25.345	6.631	56.951	58.503	44.134	Data
58.5	25.018	6.626	56.996	58.5	44.003	Data
58.5	25.546	6.608	56.992	58.501	43.989	Data
58.5	25.785	6.619	56.996	58.502	43.989	Data
60.5	25.286	6.630	57.046	58.5	44.000	Data
60.5	25.495	6.635	57.051	58.502	44.000	Data
60.5	25.488	6.616	57.021	58.504	43.992	Data
60.5	25.381	6.598	57.024	58.502	43.991	Data
61.75	25.286	6.630	57.046	58.5	44.000	Data
61.75	25.495	6.635	57.051	58.502	44.000	Data
61.75	25.488	6.616	57.021	58.504	43.992	Data
61.75	25.381	6.598	57.024	58.502	43.991	Data
63	25.286	6.630	57.046	58.5	44.000	Data
63	25.495	6.635	57.051	58.502	44.000	Data
63	25.381	6.598	57.024	58.502	43.991	Data
63	25.488	6.616	57.021	58.504	43.992	Data
64	25.286	6.630	57.046	58.5	44.000	Data
64	25.381	6.598	57.024	58.502	43.991	Data
64	25.495	6.635	57.051	58.502	44.000	Data
64	25.488	6.616	57.021	58.504	43.992	Data

Table 526: Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.965	6.635	56.992	58.501	45.023	Data
8	25.583	6.608	56.987	58.501	45.010	Data
8	25.032	6.622	56.992	58.499	45.023	Data
8	25.562	6.618	56.999	58.501	45.010	Data
30	25.000	6.627	57.027	58.503	44.984	Data
30	24.965	6.635	56.992	58.501	45.023	Data
30	24.989	6.629	57.016	58.504	44.984	Data
30	25.055	6.595	57.072	58.512	44.991	Data
30	24.932	6.592	57.076	58.51	44.991	Data
30	25.562	6.603	57.023	58.504	44.993	Data

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.544	6.612	57.017	58.503	44.993	Data
30	25.032	6.622	56.992	58.499	45.023	Data
30	25.562	6.618	56.999	58.501	45.010	Data
30	25.318	6.606	57.034	58.502	44.996	Data
30	25.583	6.608	56.987	58.501	45.010	Data
30	25.193	6.606	57.029	58.501	44.995	Data
42	25.193	6.606	57.029	58.501	44.995	Data
42	25.318	6.606	57.034	58.502	44.996	Data
43	25.193	6.606	57.029	58.501	44.995	Data
43	25.318	6.606	57.034	58.502	44.996	Data
44	25.193	6.606	57.029	58.501	44.995	Data
44	25.318	6.606	57.034	58.502	44.996	Data
45	25.193	6.606	57.029	58.501	44.995	Data
45	25.318	6.606	57.034	58.502	44.996	Data
46.5	25.032	6.622	56.992	58.499	45.023	Data
46.5	25.583	6.608	56.987	58.501	45.010	Data
46.5	25.562	6.618	56.999	58.501	45.010	Data
46.5	24.965	6.635	56.992	58.501	45.023	Data
48	25.055	6.595	57.072	58.512	44.991	Data
48	24.932	6.592	57.076	58.51	44.991	Data
49	25.055	6.595	57.072	58.512	44.991	Data
49	24.932	6.592	57.076	58.51	44.991	Data
50	25.055	6.595	57.072	58.512	44.991	Data
50	24.932	6.592	57.076	58.51	44.991	Data
51	25.055	6.595	57.072	58.512	44.991	Data
51	24.932	6.592	57.076	58.51	44.991	Data
52.5	25.032	6.622	56.992	58.499	45.023	Data
52.5	25.583	6.608	56.987	58.501	45.010	Data
52.5	25.562	6.618	56.999	58.501	45.010	Data
52.5	24.965	6.635	56.992	58.501	45.023	Data
54	24.989	6.629	57.016	58.504	44.984	Data
54	25.000	6.627	57.027	58.503	44.984	Data
55	24.989	6.629	57.016	58.504	44.984	Data
55	25.000	6.627	57.027	58.503	44.984	Data
56	24.989	6.629	57.016	58.504	44.984	Data
56	25.000	6.627	57.027	58.503	44.984	Data
57	24.989	6.629	57.016	58.504	44.984	Data
57	25.000	6.627	57.027	58.503	44.984	Data
58.5	25.032	6.622	56.992	58.499	45.023	Data
58.5	24.965	6.635	56.992	58.501	45.023	Data
58.5	25.583	6.608	56.987	58.501	45.010	Data
58.5	25.562	6.618	56.999	58.501	45.010	Data
60.5	25.544	6.612	57.017	58.503	44.993	Data
60.5	25.562	6.603	57.023	58.504	44.993	Data

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
61.75	25.544	6.612	57.017	58.503	44.993	Data
61.75	25.562	6.603	57.023	58.504	44.993	Data
63	25.544	6.612	57.017	58.503	44.993	Data
63	25.562	6.603	57.023	58.504	44.993	Data
64	25.544	6.612	57.017	58.503	44.993	Data
64	25.562	6.603	57.023	58.504	44.993	Data

Table 527: Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	24.770	6.605	56.988	58.501	46.007	Data
8	24.684	6.620	56.989	58.5	46.007	Data
8	25.413	6.604	56.987	58.501	45.992	Data
8	25.857	6.614	56.986	58.502	45.992	Data
30	24.684	6.620	56.989	58.5	46.007	Data
30	25.032	6.624	57.029	58.503	46.016	Data
30	24.895	6.600	57.021	58.505	46.016	Data
30	25.413	6.604	56.987	58.501	45.992	Data
30	25.857	6.614	56.986	58.502	45.992	Data
30	25.056	6.599	57.074	58.511	46.007	Data
30	25.599	6.602	57.024	58.503	46.001	Data
30	25.241	6.604	57.031	58.501	46.008	Data
30	24.770	6.605	56.988	58.501	46.007	Data
30	25.094	6.580	57.073	58.511	46.007	Data
30	25.668	6.591	57.024	58.504	46.002	Data
30	25.268	6.606	57.027	58.501	46.008	Data
42	25.268	6.606	57.027	58.501	46.008	Data
42	25.241	6.604	57.031	58.501	46.008	Data
43	25.268	6.606	57.027	58.501	46.008	Data
43	25.241	6.604	57.031	58.501	46.008	Data
44	25.268	6.606	57.027	58.501	46.008	Data
44	25.241	6.604	57.031	58.501	46.008	Data
45	25.268	6.606	57.027	58.501	46.008	Data
45	25.241	6.604	57.031	58.501	46.008	Data
46.5	25.857	6.614	56.986	58.502	45.992	Data
46.5	24.770	6.605	56.988	58.501	46.007	Data
46.5	24.684	6.620	56.989	58.5	46.007	Data
46.5	25.413	6.604	56.987	58.501	45.992	Data
48	25.094	6.580	57.073	58.511	46.007	Data
48	25.056	6.599	57.074	58.511	46.007	Data
49	25.094	6.580	57.073	58.511	46.007	Data
49	25.056	6.599	57.074	58.511	46.007	Data

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	25.094	6.580	57.073	58.511	46.007	Data
50	25.056	6.599	57.074	58.511	46.007	Data
51	25.094	6.580	57.073	58.511	46.007	Data
51	25.056	6.599	57.074	58.511	46.007	Data
52.5	24.684	6.620	56.989	58.5	46.007	Data
52.5	25.857	6.614	56.986	58.502	45.992	Data
52.5	24.770	6.605	56.988	58.501	46.007	Data
52.5	25.413	6.604	56.987	58.501	45.992	Data
54	24.895	6.600	57.021	58.505	46.016	Data
54	25.032	6.624	57.029	58.503	46.016	Data
55	24.895	6.600	57.021	58.505	46.016	Data
55	25.032	6.624	57.029	58.503	46.016	Data
56	24.895	6.600	57.021	58.505	46.016	Data
56	25.032	6.624	57.029	58.503	46.016	Data
57	24.895	6.600	57.021	58.505	46.016	Data
57	25.032	6.624	57.029	58.503	46.016	Data
58.5	24.770	6.605	56.988	58.501	46.007	Data
58.5	24.684	6.620	56.989	58.5	46.007	Data
58.5	25.413	6.604	56.987	58.501	45.992	Data
58.5	25.857	6.614	56.986	58.502	45.992	Data
60.5	25.668	6.591	57.024	58.504	46.002	Data
60.5	25.599	6.602	57.024	58.503	46.001	Data
61.75	25.668	6.591	57.024	58.504	46.002	Data
61.75	25.599	6.602	57.024	58.503	46.001	Data
63	25.668	6.591	57.024	58.504	46.002	Data
63	25.599	6.602	57.024	58.503	46.001	Data
64	25.668	6.591	57.024	58.504	46.002	Data
64	25.599	6.602	57.024	58.503	46.001	Data

Table 528: Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.554	6.589	56.987	58.502	46.505	Data
8	25.571	6.615	56.992	58.508	46.507	Data
8	25.465	6.624	56.983	58.502	46.505	Data
8	25.686	6.611	56.993	58.507	46.507	Data
30	25.554	6.589	56.987	58.502	46.505	Data
30	25.571	6.615	56.992	58.508	46.507	Data
30	25.686	6.611	56.993	58.507	46.507	Data
30	25.465	6.624	56.983	58.502	46.505	Data
46.5	25.686	6.611	56.993	58.507	46.507	Data
46.5	25.554	6.589	56.987	58.502	46.505	Data

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
46.5	25.571	6.615	56.992	58.508	46.507	Data
46.5	25.465	6.624	56.983	58.502	46.505	Data
52.5	25.686	6.611	56.993	58.507	46.507	Data
52.5	25.554	6.589	56.987	58.502	46.505	Data
52.5	25.465	6.624	56.983	58.502	46.505	Data
52.5	25.571	6.615	56.992	58.508	46.507	Data
58.5	25.686	6.611	56.993	58.507	46.507	Data
58.5	25.465	6.624	56.983	58.502	46.505	Data
58.5	25.571	6.615	56.992	58.508	46.507	Data
58.5	25.554	6.589	56.987	58.502	46.505	Data

Table 529: Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.477	6.590	56.985	58.502	46.996	Data
8	25.038	6.643	56.989	58.5	47.002	Data
8	25.516	6.622	56.989	58.5	46.996	Data
8	24.899	6.634	56.994	58.5	47.003	Data
30	24.857	6.596	57.028	58.503	47.018	Data
30	25.477	6.590	56.985	58.502	46.996	Data
30	24.943	6.601	57.024	58.503	47.018	Data
30	25.038	6.643	56.989	58.5	47.002	Data
30	25.254	6.609	57.031	58.503	47.008	Data
30	25.099	6.600	57.080	58.511	46.996	Data
30	25.516	6.622	56.989	58.5	46.996	Data
30	25.528	6.602	57.028	58.503	46.994	Data
30	25.050	6.599	57.075	58.512	46.996	Data
30	24.899	6.634	56.994	58.5	47.003	Data
30	25.361	6.612	57.034	58.502	47.009	Data
30	25.515	6.621	57.025	58.503	46.994	Data
42	25.254	6.609	57.031	58.503	47.008	Data
42	25.361	6.612	57.034	58.502	47.009	Data
43	25.254	6.609	57.031	58.503	47.008	Data
43	25.361	6.612	57.034	58.502	47.009	Data
44	25.254	6.609	57.031	58.503	47.008	Data
44	25.361	6.612	57.034	58.502	47.009	Data
45	25.254	6.609	57.031	58.503	47.008	Data
45	25.361	6.612	57.034	58.502	47.009	Data
46.5	25.477	6.590	56.985	58.502	46.996	Data
46.5	24.899	6.634	56.994	58.5	47.003	Data
46.5	25.516	6.622	56.989	58.5	46.996	Data
46.5	25.038	6.643	56.989	58.5	47.002	Data

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
48	25.050	6.599	57.075	58.512	46.996	Data
48	25.099	6.600	57.080	58.511	46.996	Data
49	25.050	6.599	57.075	58.512	46.996	Data
49	25.099	6.600	57.080	58.511	46.996	Data
50	25.050	6.599	57.075	58.512	46.996	Data
50	25.099	6.600	57.080	58.511	46.996	Data
51	25.050	6.599	57.075	58.512	46.996	Data
51	25.099	6.600	57.080	58.511	46.996	Data
52.5	25.477	6.590	56.985	58.502	46.996	Data
52.5	24.899	6.634	56.994	58.5	47.003	Data
52.5	25.516	6.622	56.989	58.5	46.996	Data
52.5	25.038	6.643	56.989	58.5	47.002	Data
54	24.943	6.601	57.024	58.503	47.018	Data
54	24.857	6.596	57.028	58.503	47.018	Data
55	24.943	6.601	57.024	58.503	47.018	Data
55	24.857	6.596	57.028	58.503	47.018	Data
56	24.943	6.601	57.024	58.503	47.018	Data
56	24.857	6.596	57.028	58.503	47.018	Data
57	24.943	6.601	57.024	58.503	47.018	Data
57	24.857	6.596	57.028	58.503	47.018	Data
58.5	25.477	6.590	56.985	58.502	46.996	Data
58.5	25.038	6.643	56.989	58.5	47.002	Data
58.5	24.899	6.634	56.994	58.5	47.003	Data
58.5	25.516	6.622	56.989	58.5	46.996	Data
60.5	25.515	6.621	57.025	58.503	46.994	Data
60.5	25.528	6.602	57.028	58.503	46.994	Data
61.75	25.515	6.621	57.025	58.503	46.994	Data
61.75	25.528	6.602	57.028	58.503	46.994	Data
63	25.515	6.621	57.025	58.503	46.994	Data
63	25.528	6.602	57.028	58.503	46.994	Data
64	25.528	6.602	57.028	58.503	46.994	Data
64	25.515	6.621	57.025	58.503	46.994	Data

Table 530: Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.658	6.588	56.991	58.501	48.001	Data
8	24.983	6.636	56.992	58.501	48.009	Data
8	25.577	6.628	56.993	58.501	48.001	Data
8	24.716	6.634	56.990	58.501	48.009	Data
30	24.672	6.593	57.026	58.503	47.986	Data
30	25.048	6.620	57.023	58.503	47.986	Data

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.658	6.588	56.991	58.501	48.001	Data
30	25.810	6.622	57.027	58.504	48.002	Data
30	24.983	6.636	56.992	58.501	48.009	Data
30	25.577	6.628	56.993	58.501	48.001	Data
30	25.563	6.593	57.030	58.502	48.002	Data
30	24.850	6.588	57.072	58.512	47.992	Data
30	25.188	6.616	57.029	58.502	47.998	Data
30	25.278	6.593	57.031	58.501	47.998	Data
30	25.011	6.607	57.073	58.512	47.992	Data
30	24.716	6.634	56.990	58.501	48.009	Data
42	25.188	6.616	57.029	58.502	47.998	Data
42	25.278	6.593	57.031	58.501	47.998	Data
43	25.188	6.616	57.029	58.502	47.998	Data
43	25.278	6.593	57.031	58.501	47.998	Data
44	25.188	6.616	57.029	58.502	47.998	Data
44	25.278	6.593	57.031	58.501	47.998	Data
45	25.188	6.616	57.029	58.502	47.998	Data
45	25.278	6.593	57.031	58.501	47.998	Data
46.5	24.983	6.636	56.992	58.501	48.009	Data
46.5	24.716	6.634	56.990	58.501	48.009	Data
46.5	25.658	6.588	56.991	58.501	48.001	Data
46.5	25.577	6.628	56.993	58.501	48.001	Data
48	25.011	6.607	57.073	58.512	47.992	Data
48	24.850	6.588	57.072	58.512	47.992	Data
49	25.011	6.607	57.073	58.512	47.992	Data
49	24.850	6.588	57.072	58.512	47.992	Data
50	25.011	6.607	57.073	58.512	47.992	Data
50	24.850	6.588	57.072	58.512	47.992	Data
51	25.011	6.607	57.073	58.512	47.992	Data
51	24.850	6.588	57.072	58.512	47.992	Data
52.5	24.983	6.636	56.992	58.501	48.009	Data
52.5	25.658	6.588	56.991	58.501	48.001	Data
52.5	24.716	6.634	56.990	58.501	48.009	Data
52.5	25.577	6.628	56.993	58.501	48.001	Data
54	25.048	6.620	57.023	58.503	47.986	Data
54	24.672	6.593	57.026	58.503	47.986	Data
55	24.672	6.593	57.026	58.503	47.986	Data
55	25.048	6.620	57.023	58.503	47.986	Data
56	24.672	6.593	57.026	58.503	47.986	Data
56	25.048	6.620	57.023	58.503	47.986	Data
57	24.672	6.593	57.026	58.503	47.986	Data
57	25.048	6.620	57.023	58.503	47.986	Data
58.5	24.983	6.636	56.992	58.501	48.009	Data
58.5	25.658	6.588	56.991	58.501	48.001	Data

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
58.5	25.577	6.628	56.993	58.501	48.001	Data
58.5	24.716	6.634	56.990	58.501	48.009	Data
60.5	25.563	6.593	57.030	58.502	48.002	Data
60.5	25.810	6.622	57.027	58.504	48.002	Data
61.75	25.563	6.593	57.030	58.502	48.002	Data
61.75	25.810	6.622	57.027	58.504	48.002	Data
63	25.563	6.593	57.030	58.502	48.002	Data
63	25.810	6.622	57.027	58.504	48.002	Data
64	25.563	6.593	57.030	58.502	48.002	Data
64	25.810	6.622	57.027	58.504	48.002	Data

Table 531: Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)

Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.530	6.620	56.994	58.501	48.999	Data
8	25.857	6.608	57.001	58.507	49.048	Data
8	25.449	6.606	56.992	58.506	49.048	Data
8	25.520	6.602	56.991	58.502	49.000	Data
30	25.530	6.620	56.994	58.501	48.999	Data
30	25.449	6.606	56.992	58.506	49.048	Data
30	25.857	6.608	57.001	58.507	49.048	Data
30	25.520	6.602	56.991	58.502	49.000	Data
46.5	25.857	6.608	57.001	58.507	49.048	Data
46.5	25.530	6.620	56.994	58.501	48.999	Data
46.5	25.449	6.606	56.992	58.506	49.048	Data
46.5	25.520	6.602	56.991	58.502	49.000	Data
52.5	25.520	6.602	56.991	58.502	49.000	Data
52.5	25.857	6.608	57.001	58.507	49.048	Data
52.5	25.530	6.620	56.994	58.501	48.999	Data
52.5	25.449	6.606	56.992	58.506	49.048	Data
58.5	25.520	6.602	56.991	58.502	49.000	Data
58.5	25.530	6.620	56.994	58.501	48.999	Data
58.5	25.449	6.606	56.992	58.506	49.048	Data
58.5	25.857	6.608	57.001	58.507	49.048	Data

Table 532: Vertical sweep VG at 58.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=58.5 (in)

D.51. Vertical VG vortex sweep at y=64.5 (in), q=25, α_{VG}=4, α_W=7, SQ-tip

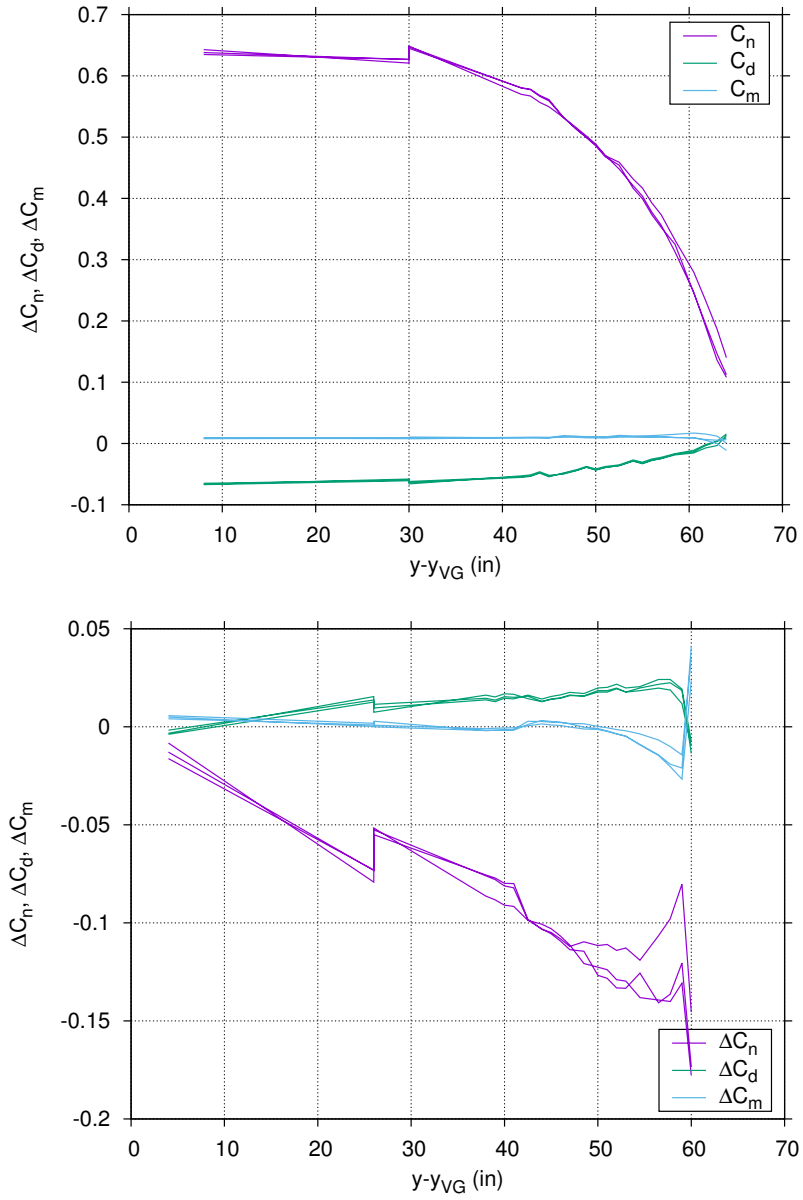

Figure 104. Vertical sweep VG at 64.5 (in), q=25 SQ-tip VG AoA 4 (Data)

Vertical sweep VG at 64.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.625	6.601	57.021	64.498	45.008	Data
8	25.779	6.626	57.012	64.498	45.007	Data
30	25.625	6.601	57.021	64.498	45.008	Data
30	25.779	6.626	57.012	64.498	45.007	Data
30	24.772	6.631	57.020	64.506	45.007	Data
30	25.219	6.592	57.089	64.506	45.004	Data
30	25.659	6.593	57.027	64.498	44.990	Data

Vertical sweep VG at 64.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
30	25.444	6.632	57.023	64.516	45.000	Data
30	25.322	6.618	57.027	64.5	44.991	Data
30	25.555	6.609	57.030	64.516	45.001	Data
30	24.947	6.616	57.034	64.506	45.006	Data
30	25.137	6.594	57.073	64.507	45.004	Data
42	25.444	6.632	57.023	64.516	45.000	Data
42	25.555	6.609	57.030	64.516	45.001	Data
43	25.444	6.632	57.023	64.516	45.000	Data
43	25.555	6.609	57.030	64.516	45.001	Data
44	25.444	6.632	57.023	64.516	45.000	Data
44	25.555	6.609	57.030	64.516	45.001	Data
45	25.444	6.632	57.023	64.516	45.000	Data
45	25.555	6.609	57.030	64.516	45.001	Data
46.5	25.779	6.626	57.012	64.498	45.007	Data
46.5	25.625	6.601	57.021	64.498	45.008	Data
48	25.137	6.594	57.073	64.507	45.004	Data
48	25.219	6.592	57.089	64.506	45.004	Data
49	25.137	6.594	57.073	64.507	45.004	Data
49	25.219	6.592	57.089	64.506	45.004	Data
50	25.137	6.594	57.073	64.507	45.004	Data
50	25.219	6.592	57.089	64.506	45.004	Data
51	25.137	6.594	57.073	64.507	45.004	Data
51	25.219	6.592	57.089	64.506	45.004	Data
52.5	25.779	6.626	57.012	64.498	45.007	Data
52.5	25.625	6.601	57.021	64.498	45.008	Data
54	24.947	6.616	57.034	64.506	45.006	Data
54	24.772	6.631	57.020	64.506	45.007	Data
55	24.947	6.616	57.034	64.506	45.006	Data
55	24.772	6.631	57.020	64.506	45.007	Data
56	24.947	6.616	57.034	64.506	45.006	Data
56	24.772	6.631	57.020	64.506	45.007	Data
57	24.947	6.616	57.034	64.506	45.006	Data
57	24.772	6.631	57.020	64.506	45.007	Data
58.5	25.779	6.626	57.012	64.498	45.007	Data
58.5	25.625	6.601	57.021	64.498	45.008	Data
60.5	25.322	6.618	57.027	64.5	44.991	Data
60.5	25.659	6.593	57.027	64.498	44.990	Data
61.75	25.322	6.618	57.027	64.5	44.991	Data
61.75	25.659	6.593	57.027	64.498	44.990	Data
63	25.322	6.618	57.027	64.5	44.991	Data
63	25.659	6.593	57.027	64.498	44.990	Data
64	25.322	6.618	57.027	64.5	44.991	Data
64	25.659	6.593	57.027	64.498	44.990	Data

Vertical sweep VG at 64.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data

Table 533: Vertical sweep VG at 64.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.618	6.640	57.024	64.498	45.965	Data
8	25.589	6.612	57.018	64.497	45.965	Data
30	24.950	6.606	57.029	64.506	45.991	Data
30	25.618	6.640	57.024	64.498	45.965	Data
30	25.011	6.622	57.026	64.507	45.992	Data
30	25.589	6.612	57.018	64.497	45.965	Data
30	25.581	6.597	57.032	64.516	45.997	Data
30	25.104	6.591	57.074	64.508	46.000	Data
30	25.530	6.612	57.027	64.516	45.996	Data
30	25.533	6.593	57.019	64.5	46.012	Data
30	25.394	6.618	57.027	64.5	46.012	Data
30	25.041	6.589	57.074	64.507	45.999	Data
42	25.581	6.597	57.032	64.516	45.997	Data
42	25.530	6.612	57.027	64.516	45.996	Data
43	25.530	6.612	57.027	64.516	45.996	Data
43	25.581	6.597	57.032	64.516	45.997	Data
44	25.530	6.612	57.027	64.516	45.996	Data
44	25.581	6.597	57.032	64.516	45.997	Data
45	25.530	6.612	57.027	64.516	45.996	Data
45	25.581	6.597	57.032	64.516	45.997	Data
46.5	25.618	6.640	57.024	64.498	45.965	Data
46.5	25.589	6.612	57.018	64.497	45.965	Data
48	25.104	6.591	57.074	64.508	46.000	Data
48	25.041	6.589	57.074	64.507	45.999	Data
49	25.104	6.591	57.074	64.508	46.000	Data
49	25.041	6.589	57.074	64.507	45.999	Data
50	25.104	6.591	57.074	64.508	46.000	Data
50	25.041	6.589	57.074	64.507	45.999	Data
51	25.104	6.591	57.074	64.508	46.000	Data
51	25.041	6.589	57.074	64.507	45.999	Data
52.5	25.618	6.640	57.024	64.498	45.965	Data
52.5	25.589	6.612	57.018	64.497	45.965	Data
54	25.011	6.622	57.026	64.507	45.992	Data
54	24.950	6.606	57.029	64.506	45.991	Data
55	25.011	6.622	57.026	64.507	45.992	Data
55	24.950	6.606	57.029	64.506	45.991	Data
56	25.011	6.622	57.026	64.507	45.992	Data
56	24.950	6.606	57.029	64.506	45.991	Data

Vertical sweep VG at 64.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
57	25.011	6.622	57.026	64.507	45.992	Data
57	24.950	6.606	57.029	64.506	45.991	Data
58.5	25.589	6.612	57.018	64.497	45.965	Data
58.5	25.618	6.640	57.024	64.498	45.965	Data
60.5	25.533	6.593	57.019	64.5	46.012	Data
60.5	25.394	6.618	57.027	64.5	46.012	Data
61.75	25.533	6.593	57.019	64.5	46.012	Data
61.75	25.394	6.618	57.027	64.5	46.012	Data
63	25.533	6.593	57.019	64.5	46.012	Data
63	25.394	6.618	57.027	64.5	46.012	Data
64	25.533	6.593	57.019	64.5	46.012	Data
64	25.394	6.618	57.027	64.5	46.012	Data

Table 534: Vertical sweep VG at 64.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=64.5 (in)

Vertical sweep VG at 64.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
8	25.827	6.634	57.022	64.498	46.995	Data
8	25.509	6.647	57.021	64.498	46.995	Data
30	24.981	6.623	57.027	64.505	46.980	Data
30	24.889	6.619	57.029	64.505	46.981	Data
30	25.373	6.593	57.023	64.5	47.002	Data
30	25.827	6.634	57.022	64.498	46.995	Data
30	25.369	6.595	57.024	64.514	47.001	Data
30	25.509	6.647	57.021	64.498	46.995	Data
30	25.272	6.579	57.076	64.509	47.000	Data
30	24.966	6.602	57.084	64.506	47.000	Data
30	25.370	6.596	57.021	64.516	47.001	Data
30	25.472	6.595	57.016	64.499	47.002	Data
42	25.369	6.595	57.024	64.514	47.001	Data
42	25.370	6.596	57.021	64.516	47.001	Data
43	25.369	6.595	57.024	64.514	47.001	Data
43	25.370	6.596	57.021	64.516	47.001	Data
44	25.369	6.595	57.024	64.514	47.001	Data
44	25.370	6.596	57.021	64.516	47.001	Data
45	25.369	6.595	57.024	64.514	47.001	Data
45	25.370	6.596	57.021	64.516	47.001	Data
46.5	25.509	6.647	57.021	64.498	46.995	Data
46.5	25.827	6.634	57.022	64.498	46.995	Data
48	24.966	6.602	57.084	64.506	47.000	Data
48	25.272	6.579	57.076	64.509	47.000	Data
49	24.966	6.602	57.084	64.506	47.000	Data
49	25.272	6.579	57.076	64.509	47.000	Data

Vertical sweep VG at 64.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=64.5 (in)						
Span(in)	Q (psf)	Wing AoA	VG_x	VG_y	VG_z	Data
50	24.966	6.602	57.084	64.506	47.000	Data
50	25.272	6.579	57.076	64.509	47.000	Data
51	24.966	6.602	57.084	64.506	47.000	Data
51	25.272	6.579	57.076	64.509	47.000	Data
52.5	25.509	6.647	57.021	64.498	46.995	Data
52.5	25.827	6.634	57.022	64.498	46.995	Data
54	24.889	6.619	57.029	64.505	46.981	Data
54	24.981	6.623	57.027	64.505	46.980	Data
55	24.889	6.619	57.029	64.505	46.981	Data
55	24.981	6.623	57.027	64.505	46.980	Data
56	24.889	6.619	57.029	64.505	46.981	Data
56	24.981	6.623	57.027	64.505	46.980	Data
57	24.889	6.619	57.029	64.505	46.981	Data
57	24.981	6.623	57.027	64.505	46.980	Data
58.5	25.827	6.634	57.022	64.498	46.995	Data
58.5	25.509	6.647	57.021	64.498	46.995	Data
60.5	25.373	6.593	57.023	64.5	47.002	Data
60.5	25.472	6.595	57.016	64.499	47.002	Data
61.75	25.373	6.593	57.023	64.5	47.002	Data
61.75	25.472	6.595	57.016	64.499	47.002	Data
63	25.373	6.593	57.023	64.5	47.002	Data
63	25.472	6.595	57.016	64.499	47.002	Data
64	25.373	6.593	57.023	64.5	47.002	Data
64	25.472	6.595	57.016	64.499	47.002	Data

Table 535: Vertical sweep VG at 64.5 (in), q=25 SQ-tip VG AoA 4 VG at span y=64.5 (in)